

SONY

VIDEOCASSETTE PLAYER

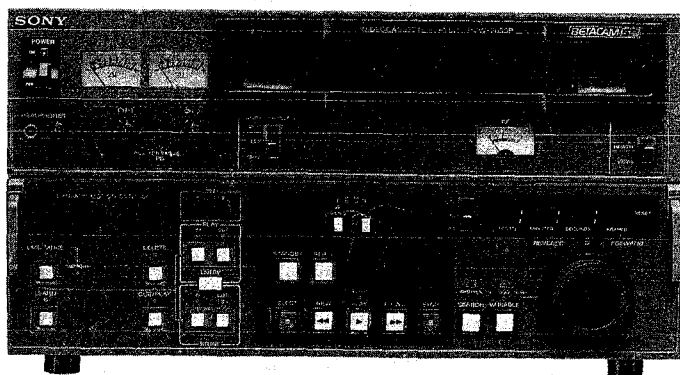
PVW-2650P

SERVICE MANUAL

Vol.2 1st Edition

Serial No.10001 and Higher

BETACAM SP
2000 PRO



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17. SEMICONDUCTOR PIN ASSIGNMENT

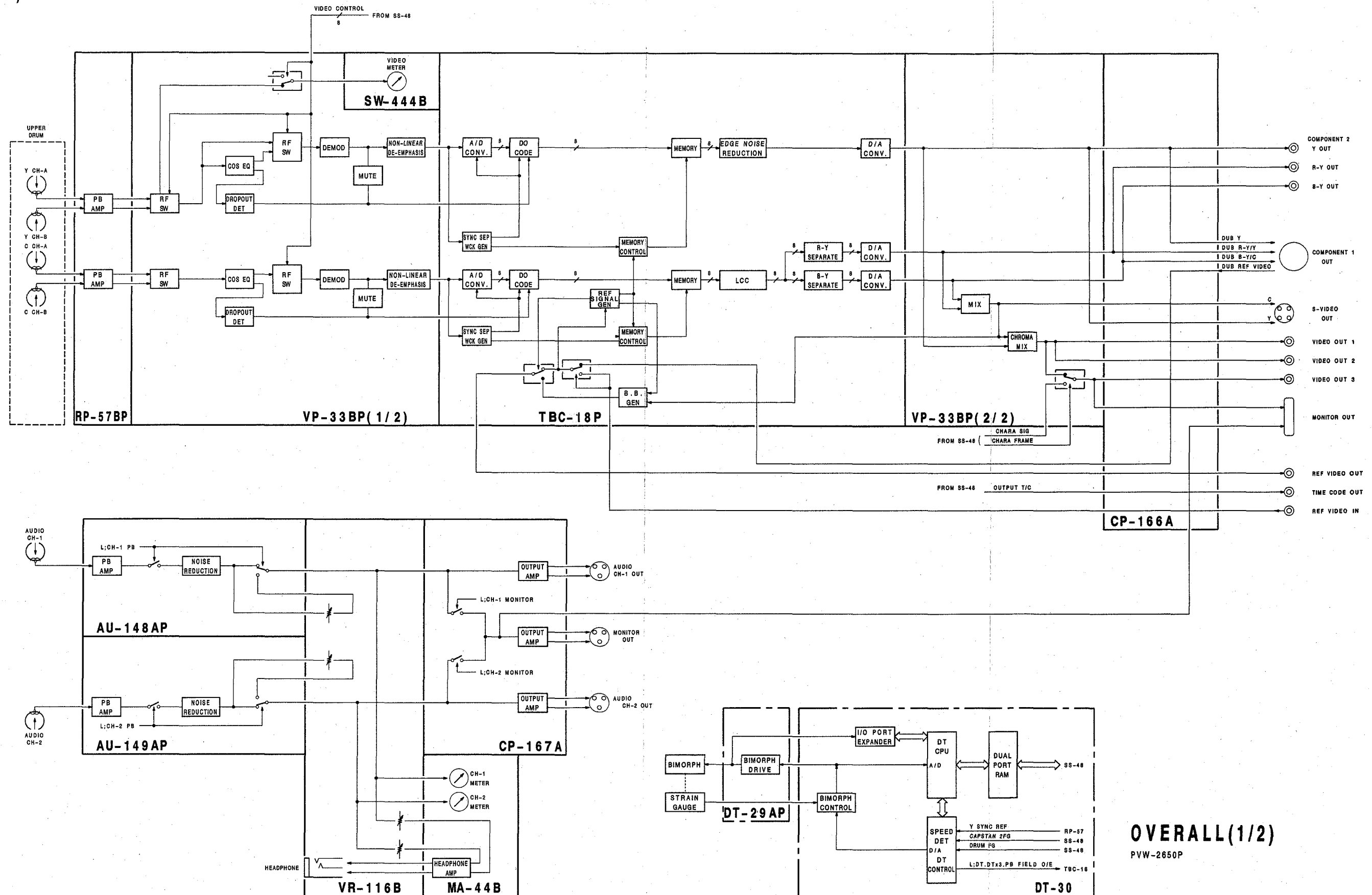
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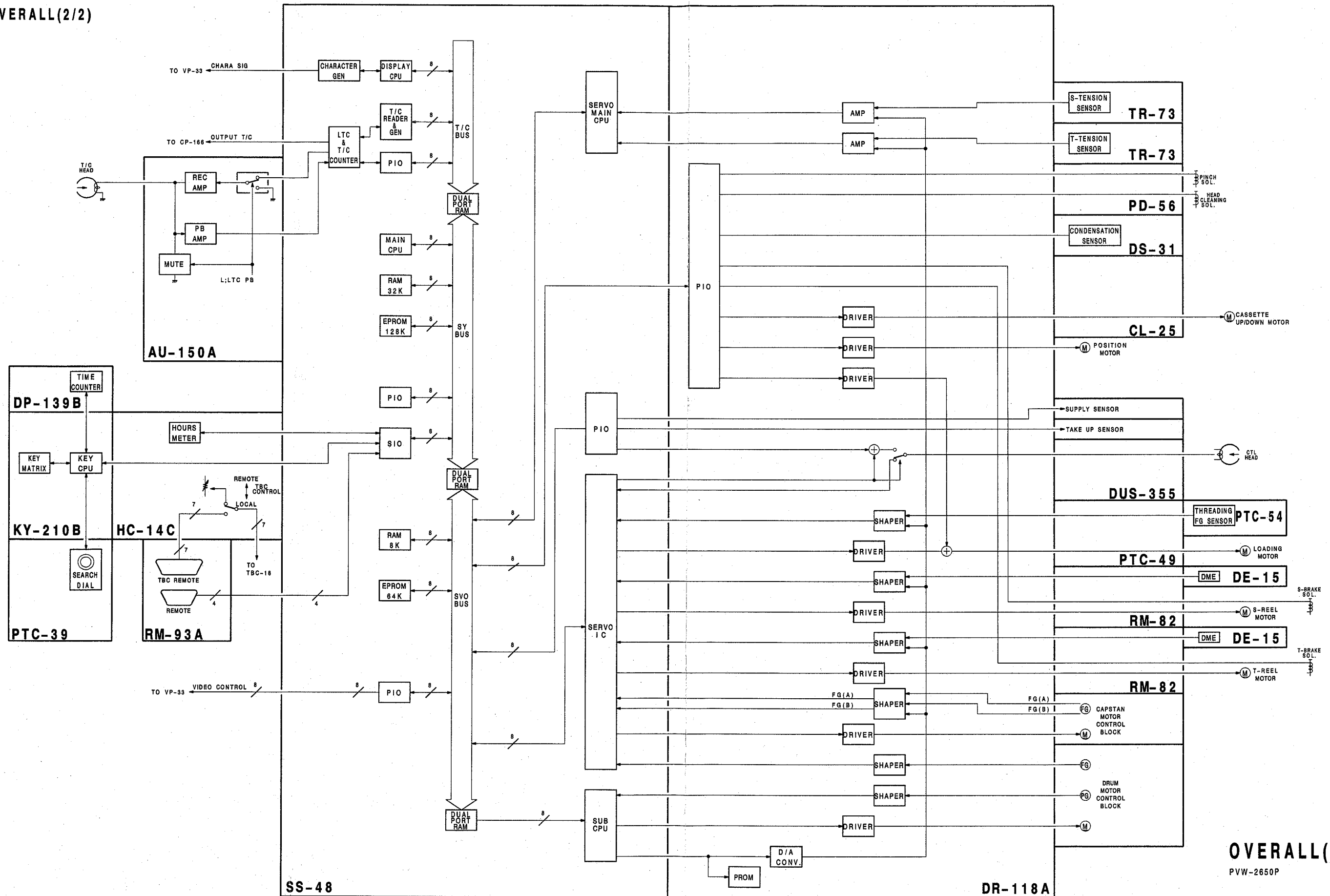
SECTION 14
BLOCK DIAGRAM

OVERALL(1/2)



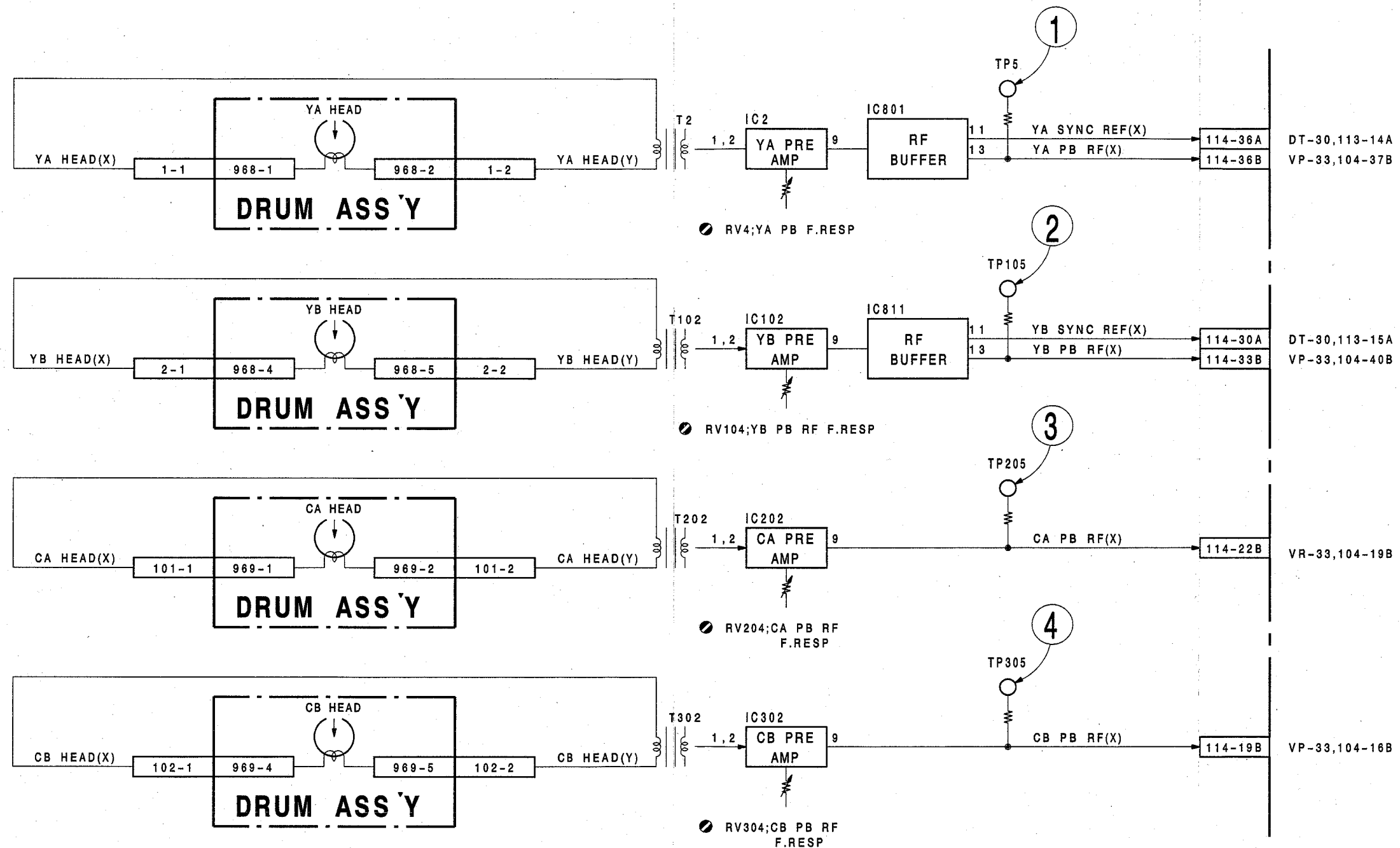
OVERALL(1/2)
PVW-2650P

OVERALL(2/2)



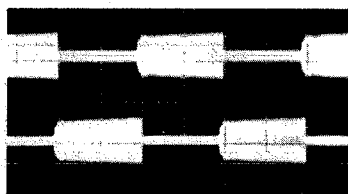
OVERALL(2/2)
PVW-2650P

RF PB AMPLIFIER



① TP 5
PB

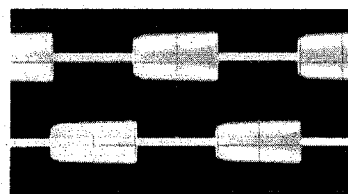
② TP 105
PB



V : 200 mV/div
H : 10 ms/div

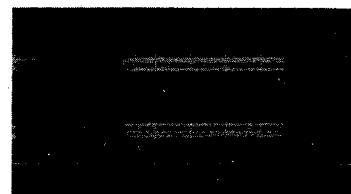
③ TP 205
PB

④ TP 305
PB



V : 200 mV/div
H : 10 ms/div

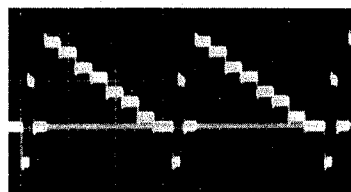
① TP 201
PB



V : 200 mV/div

H : 2 ms/div

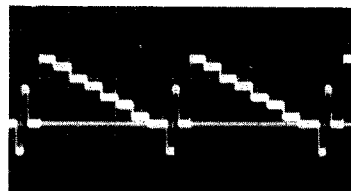
② TP 202
PB



V : 200 mV/div

H : 20 μs/div

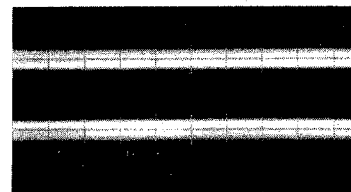
③ TP 204
PB



V : 500 mV/div

H : 20 μs/div

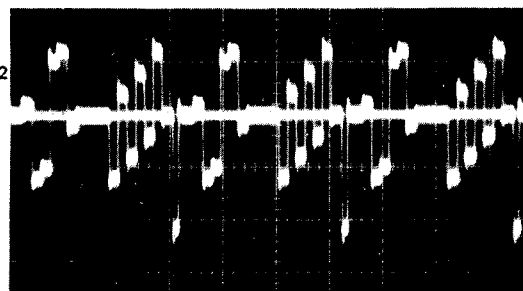
④ TP 501
PB



V : 200 mV/div

H : 20 μs/div

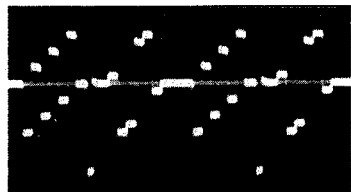
⑤ TP 502
PB



V : 200 mV/div

H : 20 μs/div

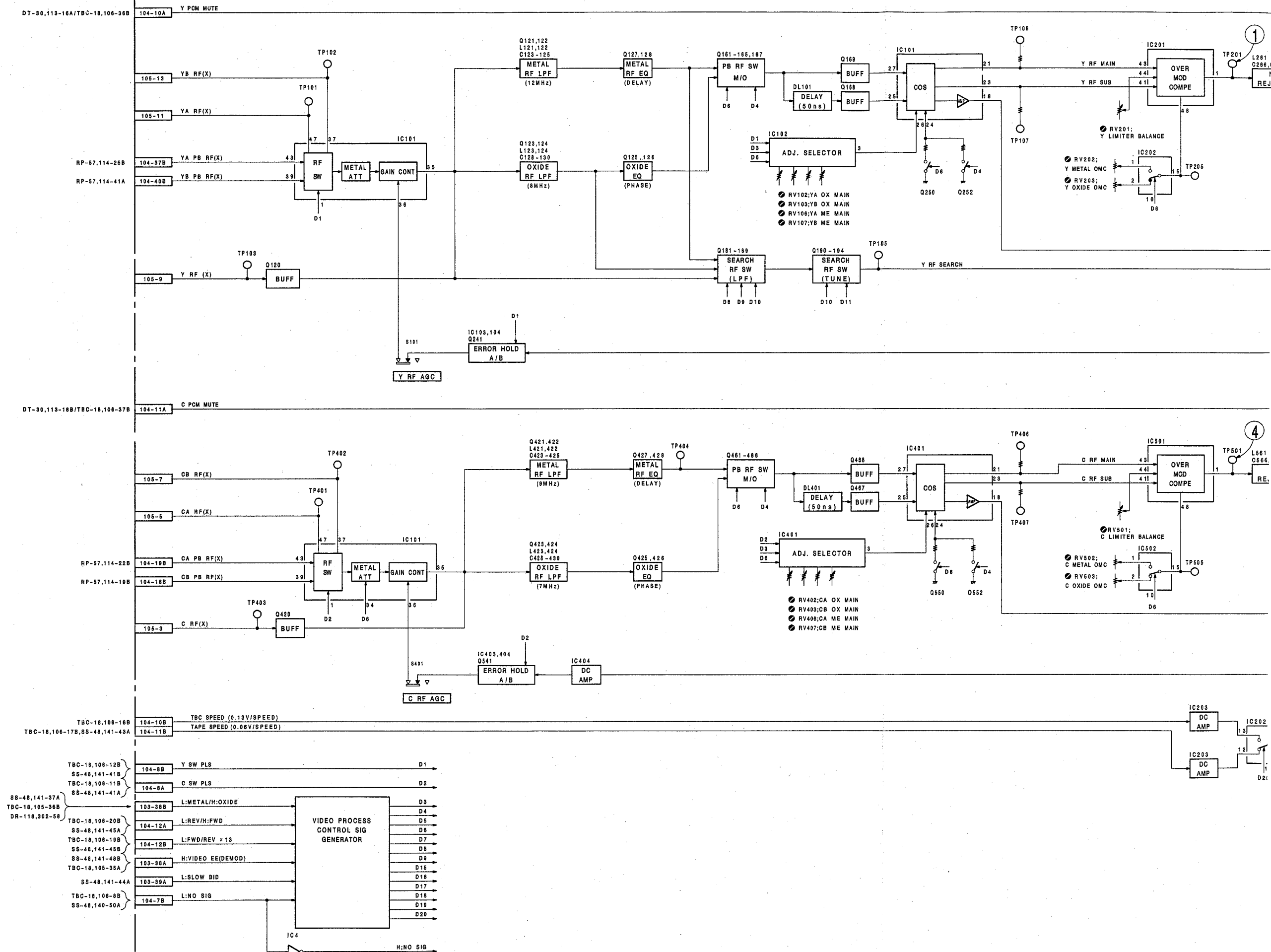
⑥ TP 504
PB



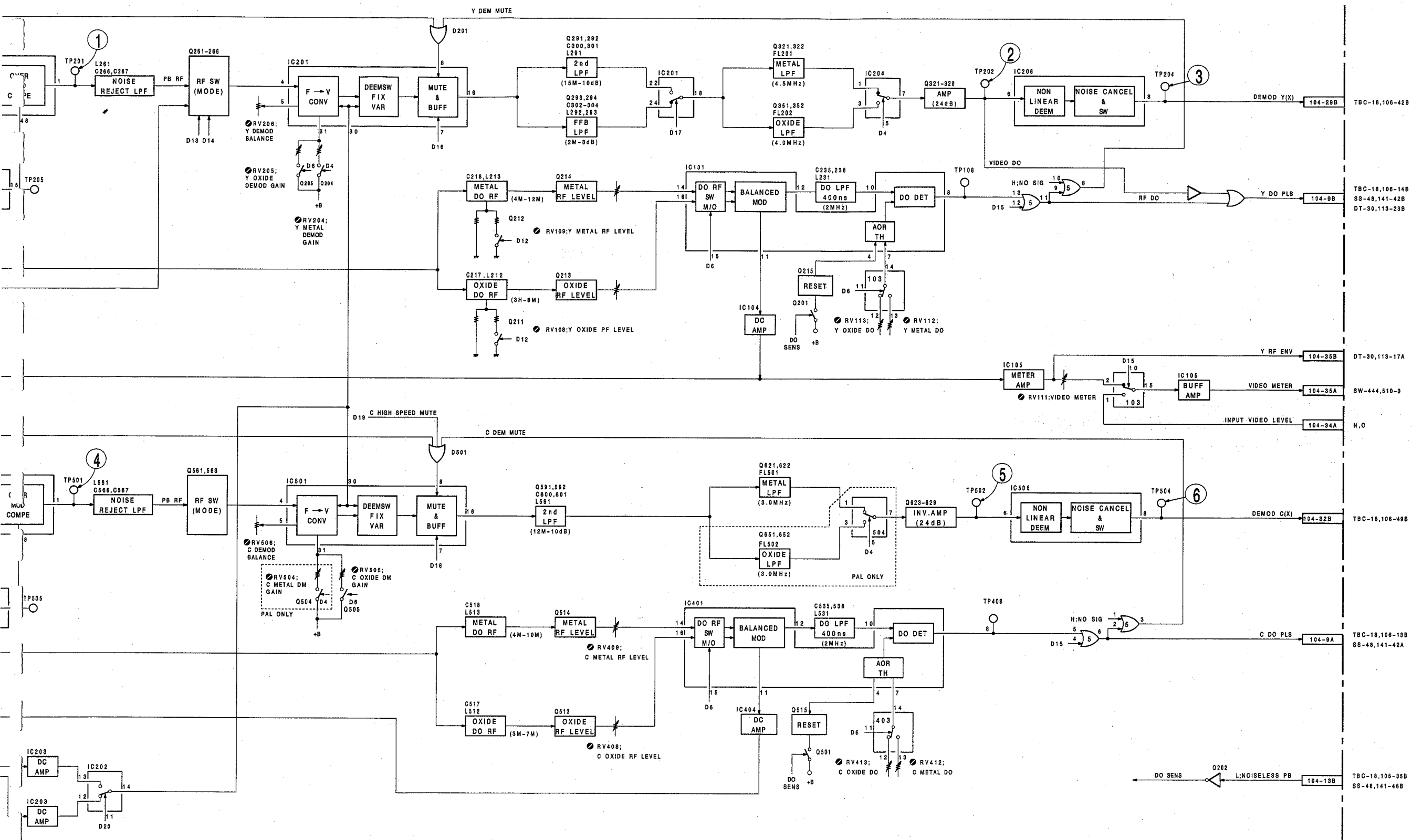
V : 500 mV/div

H : 20 μs/div

PB RF EQ,DEMODULATOR



PB RF EQ,DEM0D. PB RF EQ,DEM0D.

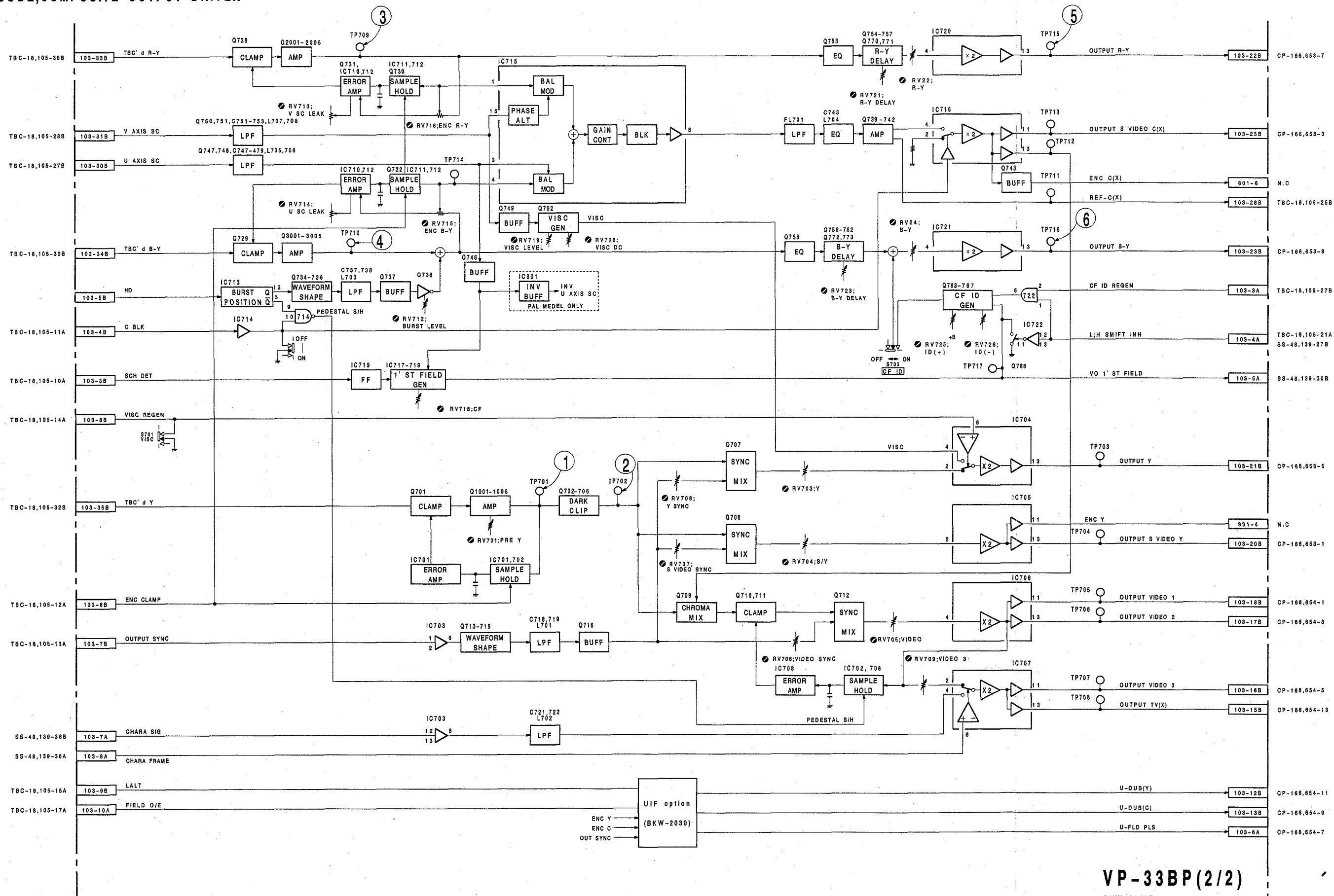


VP-33BP(1/2)

PVW-2650P

ENCODE,OUTPUT ENCODE,OUTPUT

ENCODE,COMPOSITE OUTPUT DRIVER

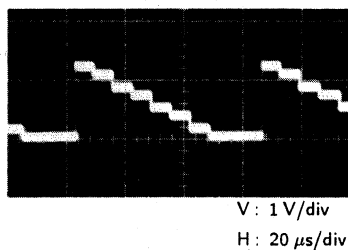


VP-33BP (2/2)

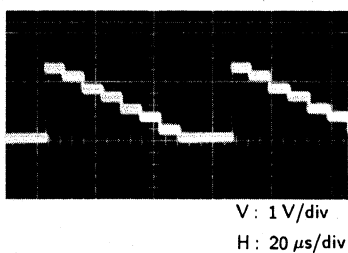
PVW-2650P

ENCODE,OUTPUT ENCODE,OUTPUT

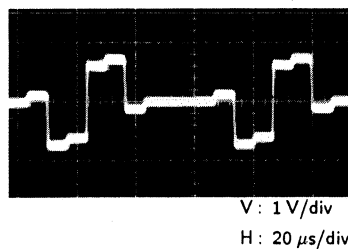
① TP 701
PB



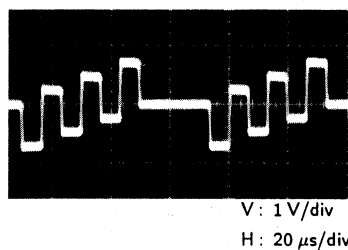
② TP 702
PB



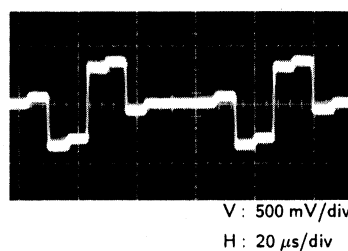
③ TP 709
PB



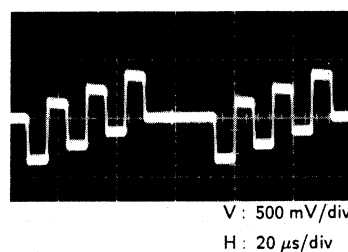
④ TP 710
PB



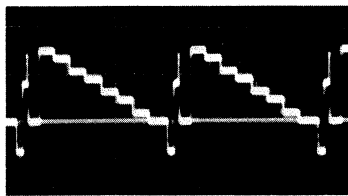
⑤ TP 715
PB



⑥ TP 716
PB

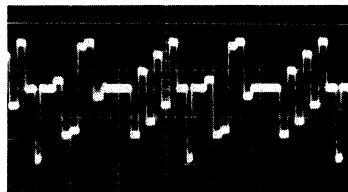


① TP 101
PB



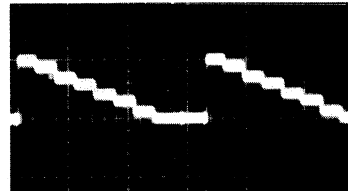
V: 1 V/div
H: 20 μ s/div

② TP 201
PB



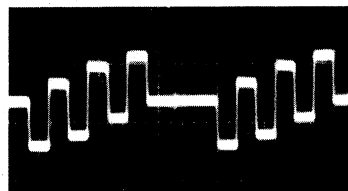
V: 1 V/div
H: 20 μ s/div

③ TP 500
PB



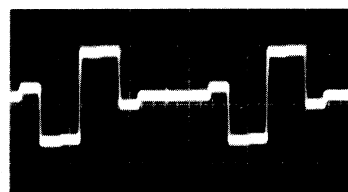
V: 500 mV/div
H: 20 μ s/div

④ TP 501
PB



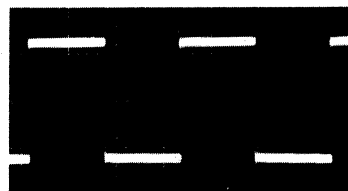
V: 500 mV/div
H: 20 μ s/div

⑤ TP 502
PB



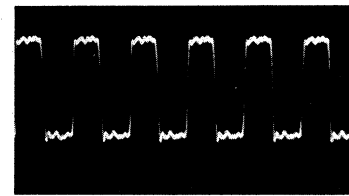
V: 500 mV/div
H: 20 μ s/div

⑥ TP 303
PB



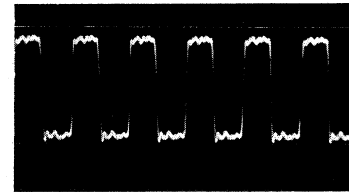
V: 2 V/div
H: 20 μ s/div

⑦ TP 304
PB



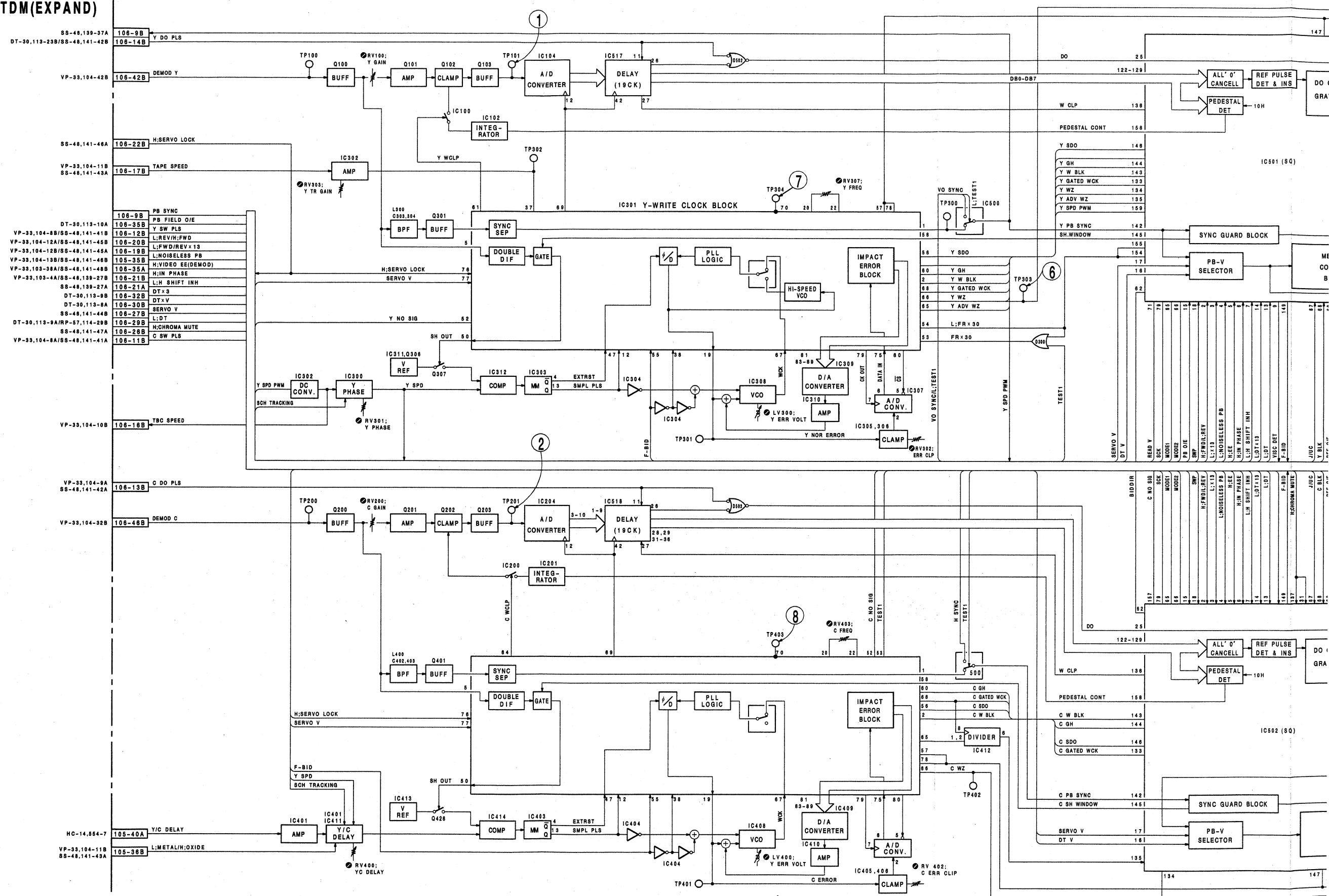
V: 2 V/div
H: 50 ns/div

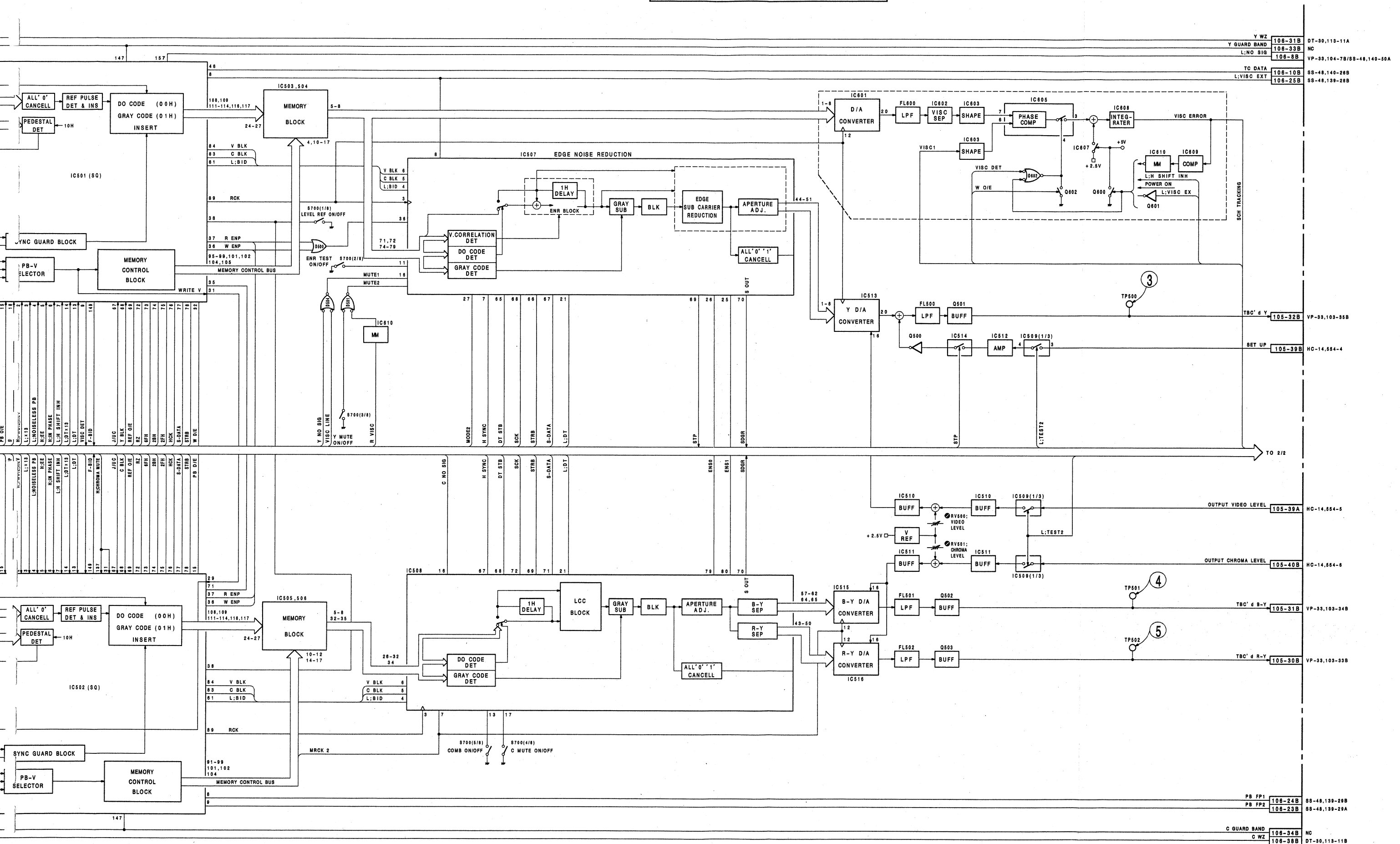
⑧ TP 403
PB



V: 2 V/div
H: 50 ns/div

TIME BASE CORRECTOR,CTDM(EXPAND)

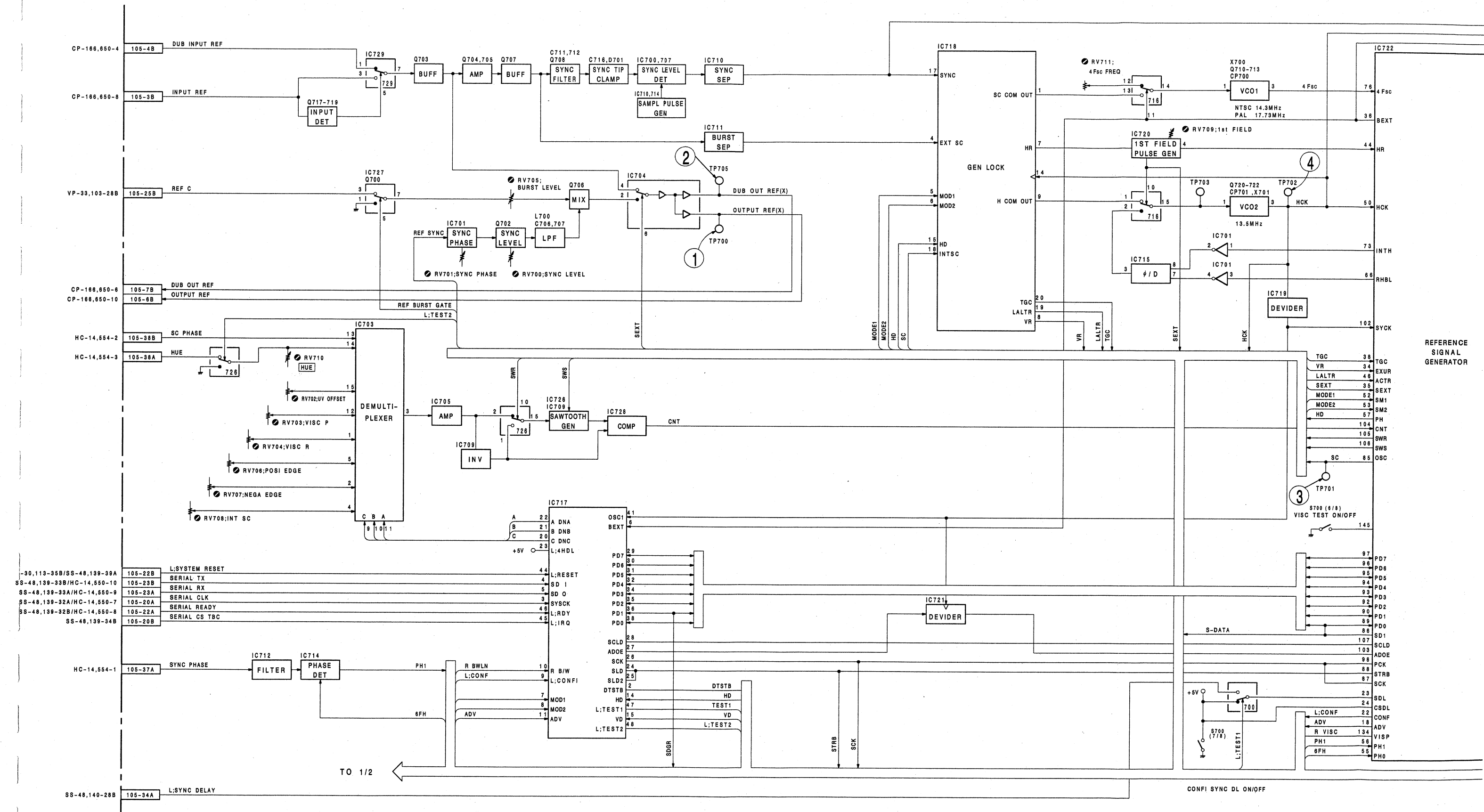


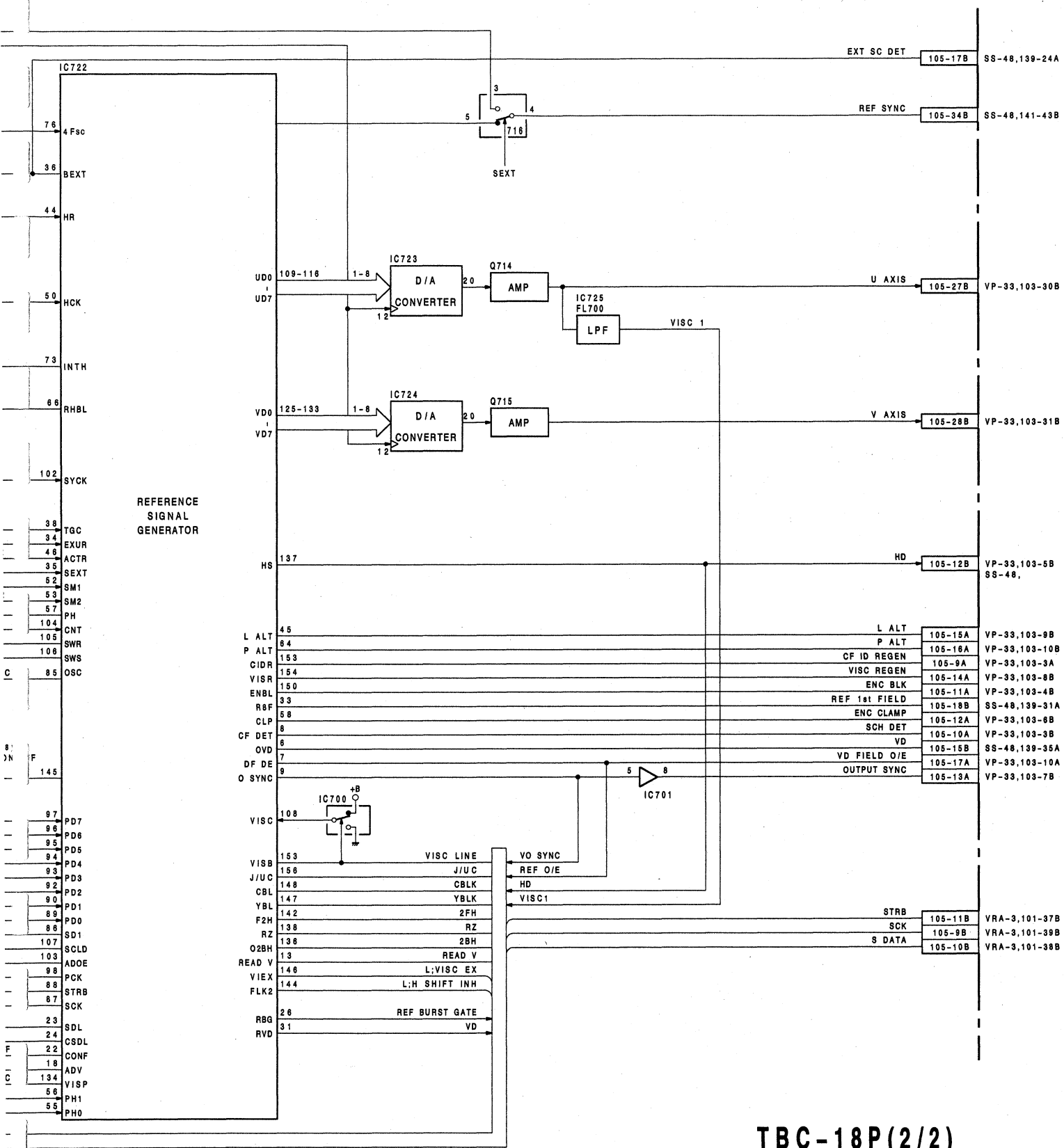


TBC-18P(1/2)

PVW-2650P

TIE BASE CORRECTOR

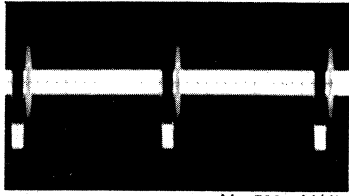




TBC-18P(2/2)

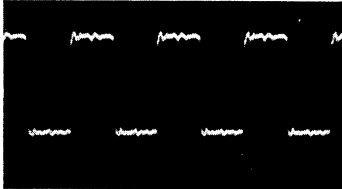
PVW-2650P

- ① TP 700
- ② TP 705
- PB



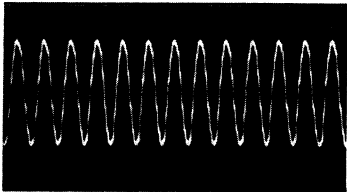
V : 500 mV/div
H : 20 μ s/div

- ③ TP 701
- PB



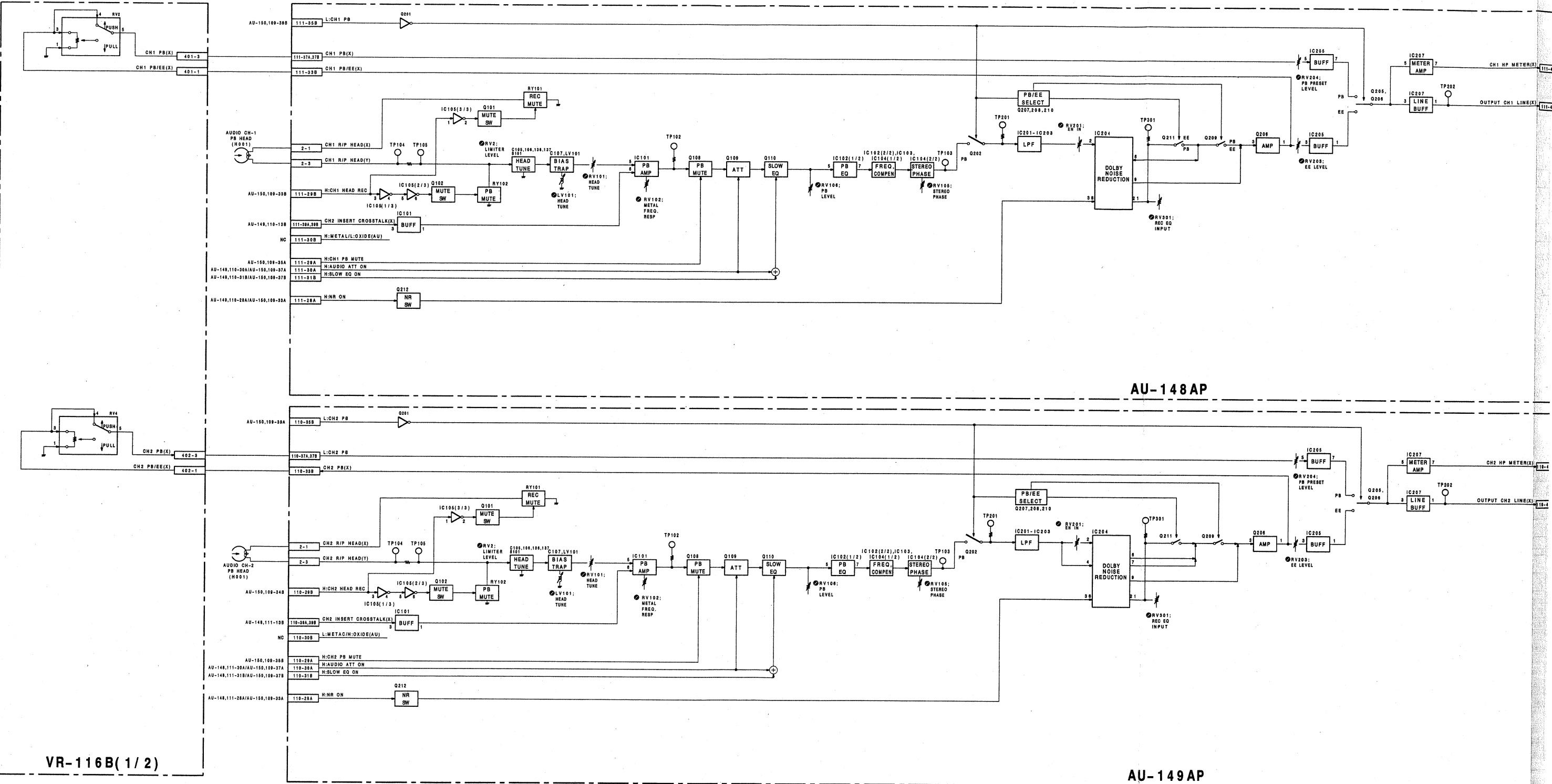
V : 2 V/div
H : 100 ns/div

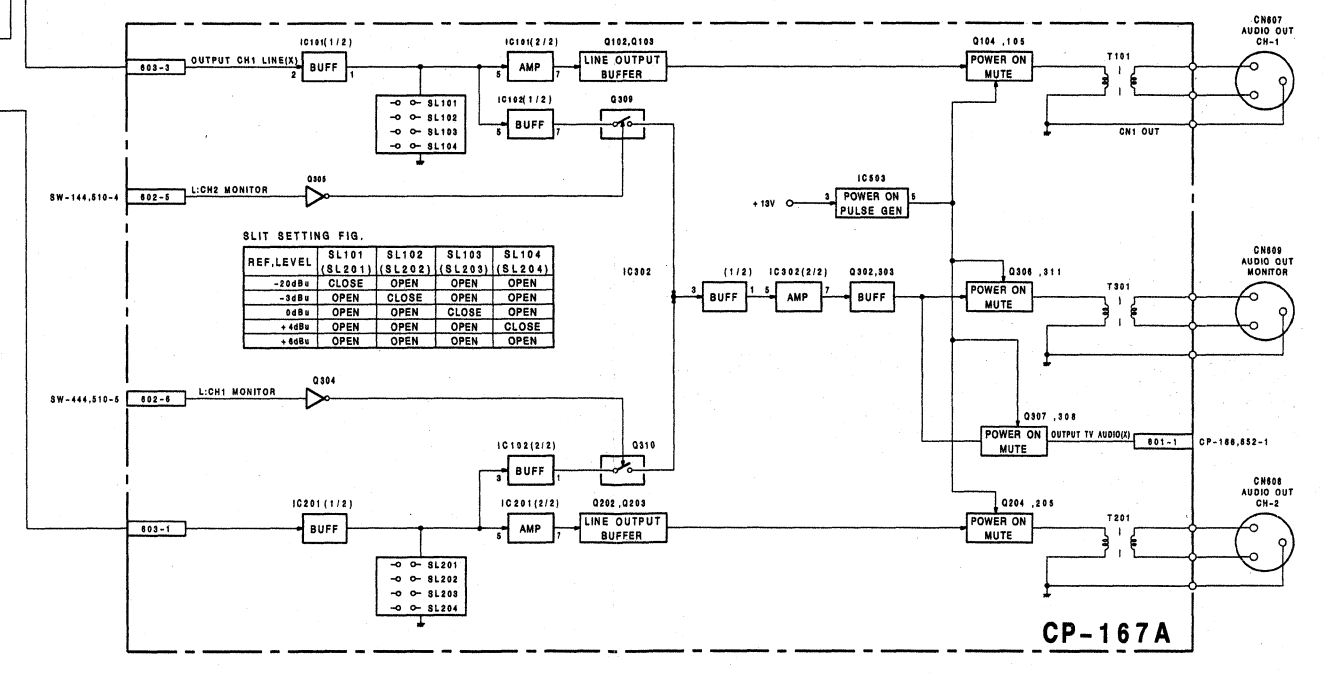
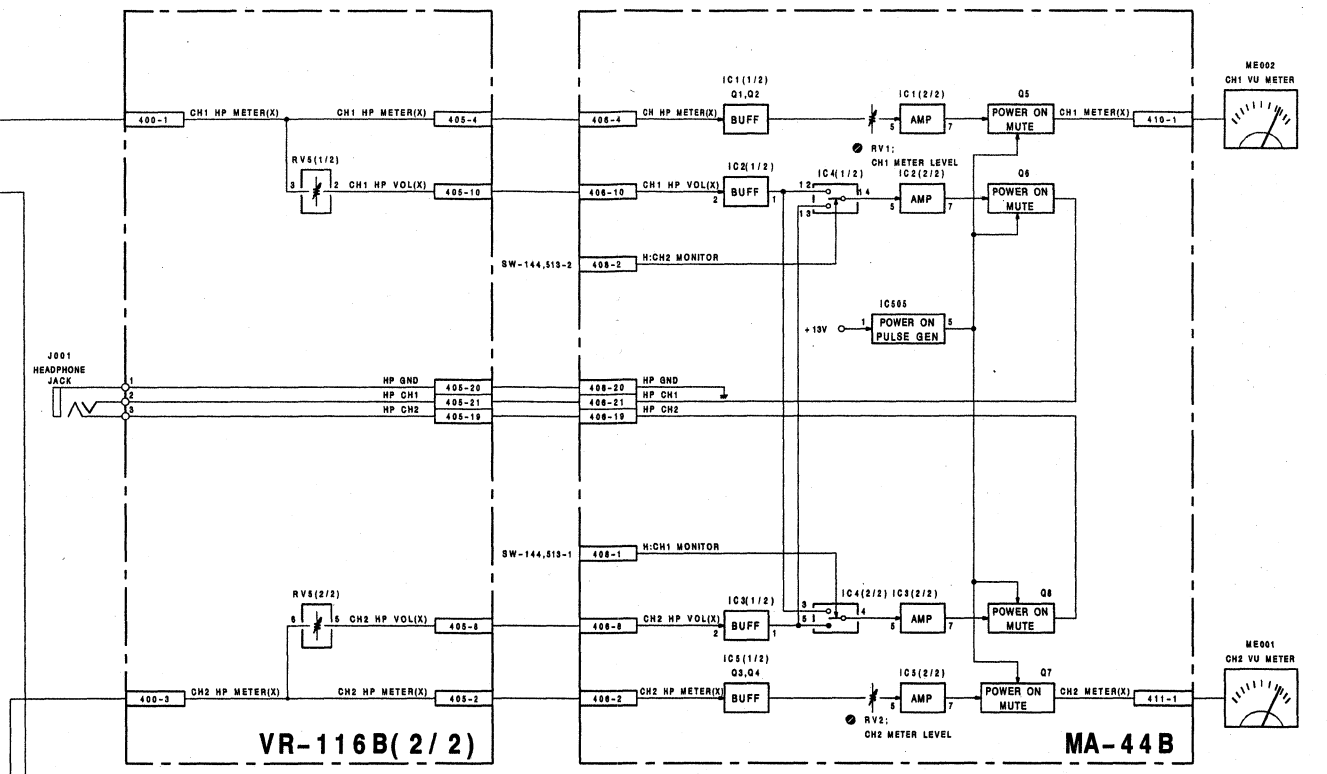
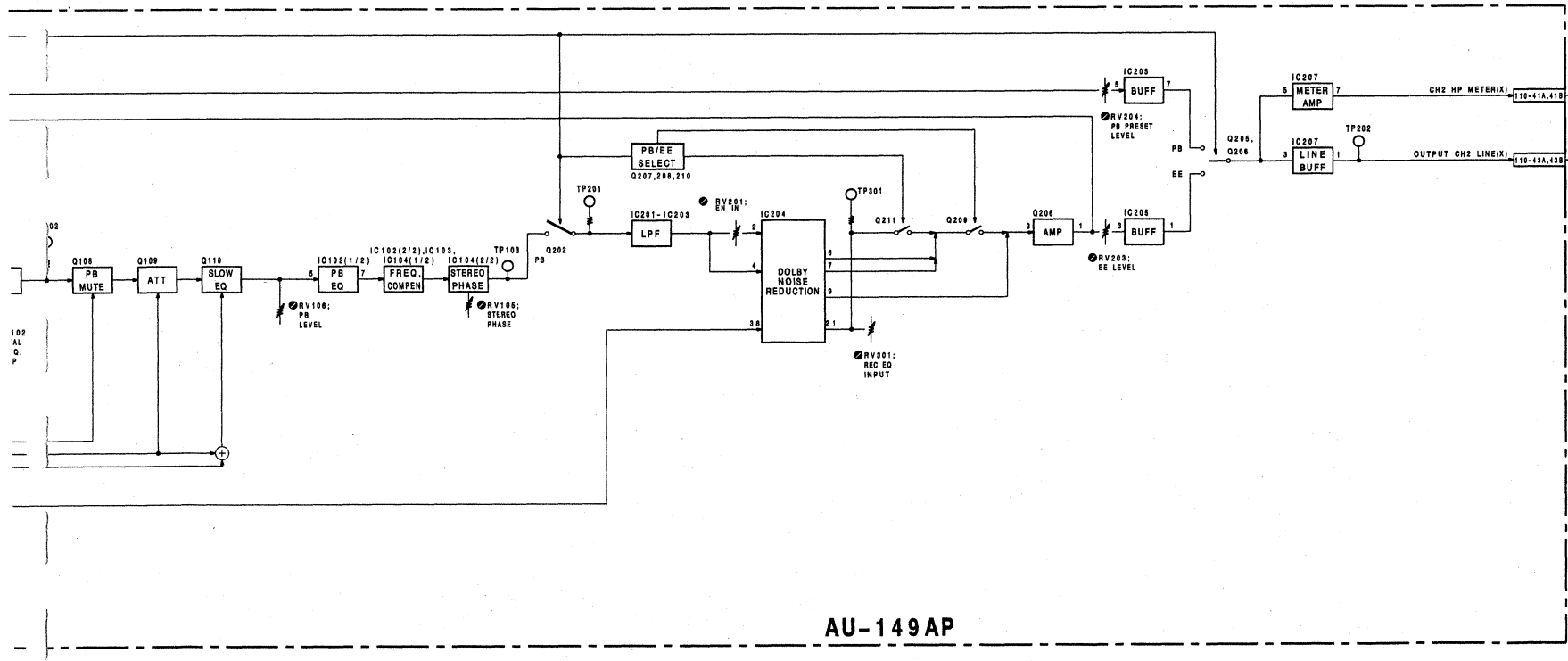
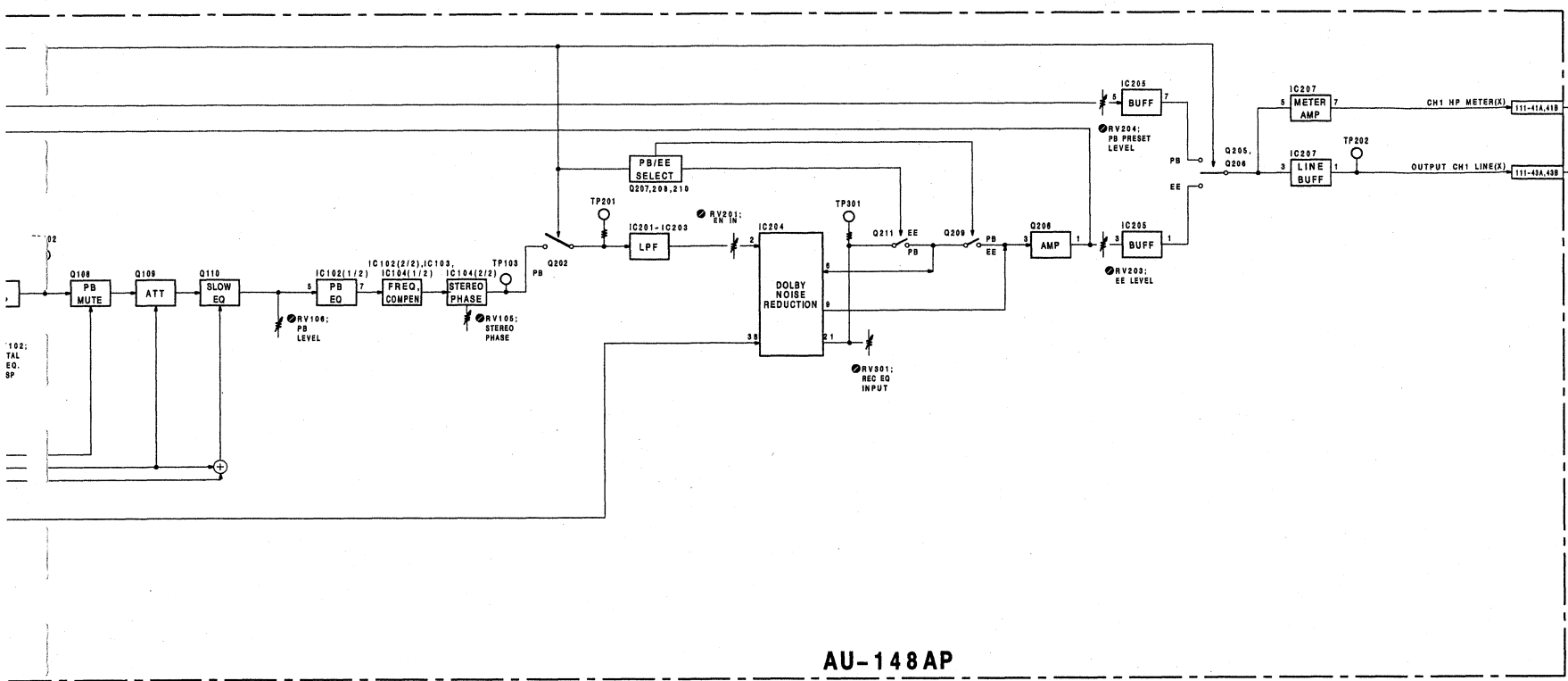
- ④ TP 702
- PB



V : 2 V/div
H : 100 ns/div

AUDIO CH-1/CH-2 PB PROCESS,DOLBY SYSTEM,OUTPUT DRIVER,METER DRIVER



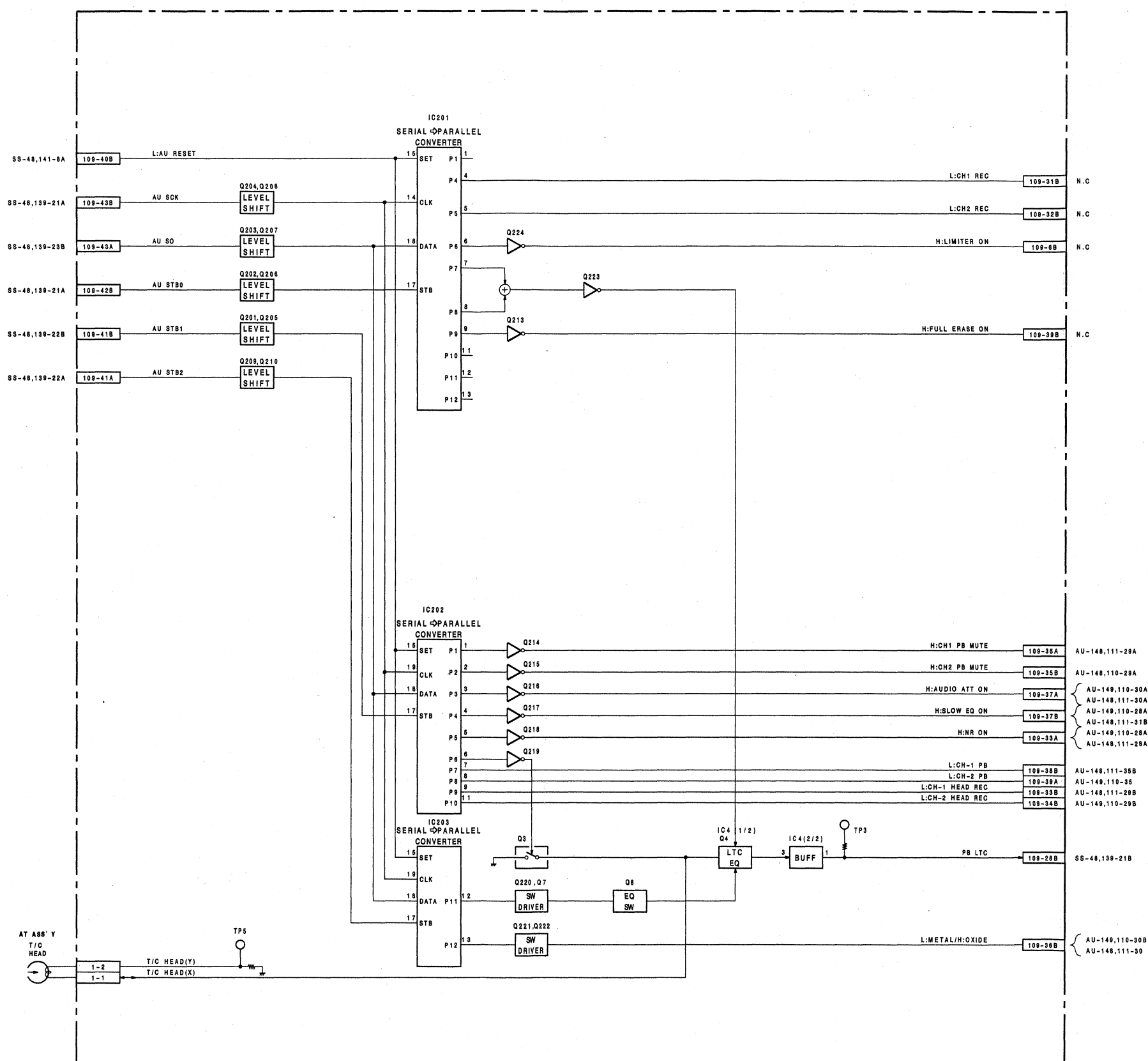


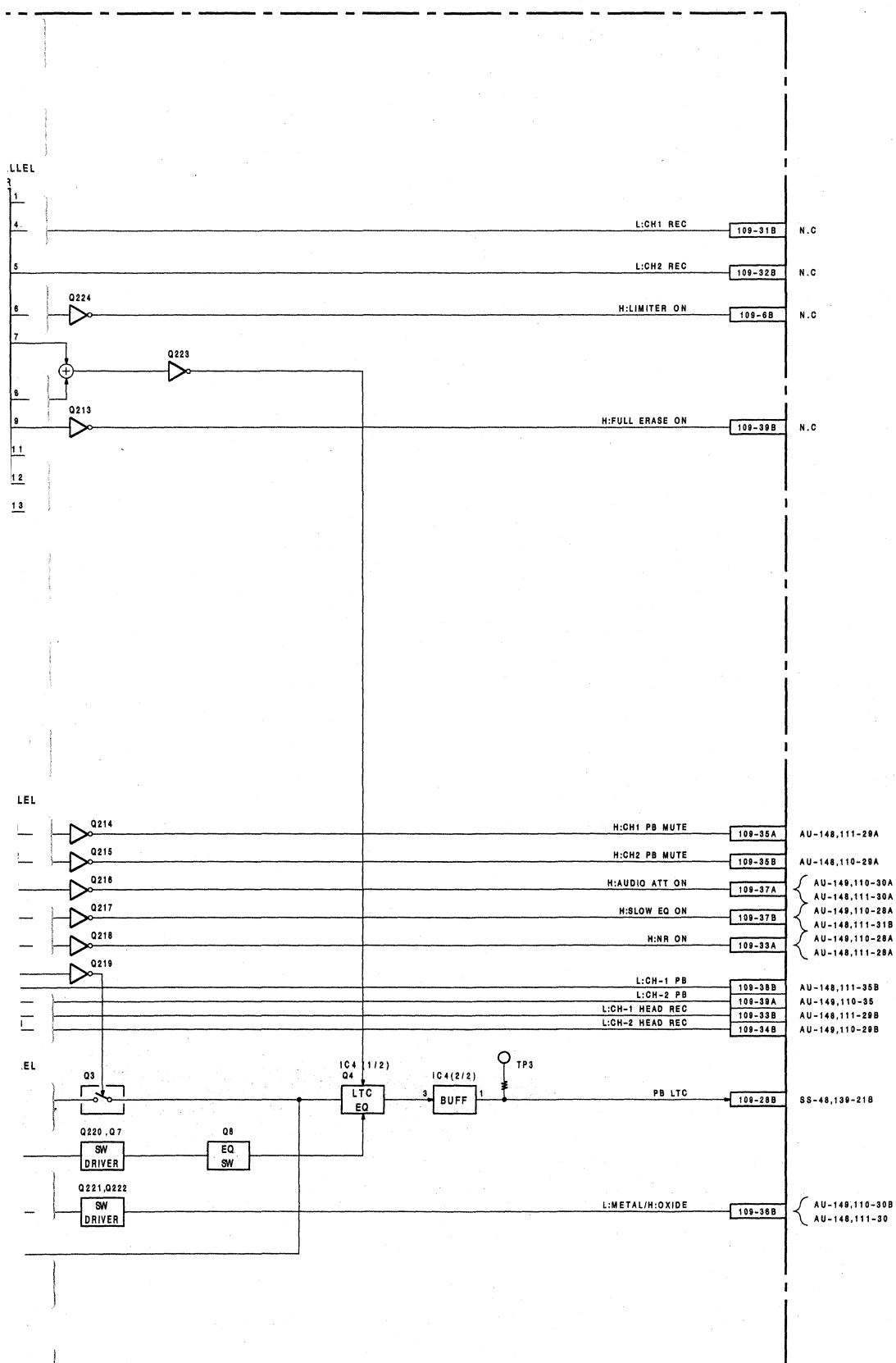
SLIT SETTING FIG.

REF. LEVEL	SL101 (SL201)	SL102 (SL202)	SL103 (SL203)	SL104 (SL204)
-20dB	CLOSE	OPEN	OPEN	OPEN
-30dB	OPEN	CLOSE	OPEN	OPEN
0dB	OPEN	OPEN	CLOSE	OPEN
+30dB	OPEN	OPEN	OPEN	CLOSE
+60dB	OPEN	OPEN	OPEN	OPEN

AU-148AP/149AP
PVW-2650P

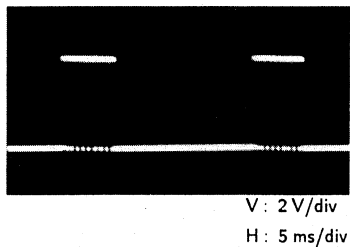
AUDIO MODE CONTROL,LTC PB



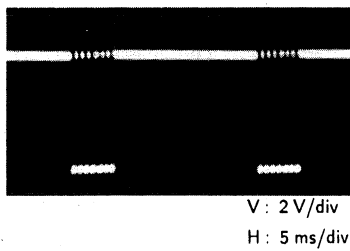


AU-150A
PVW-2650P

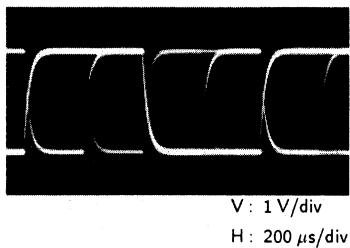
① TP 104
EE/PB



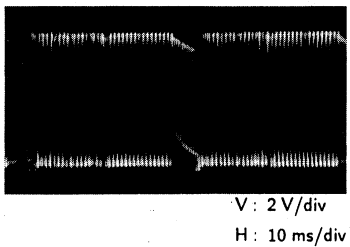
② TP 105
EE/PB



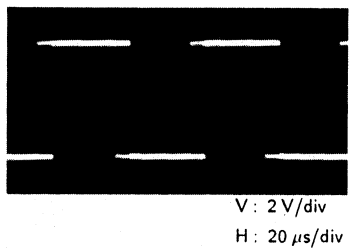
③ TP 404
EE/PB



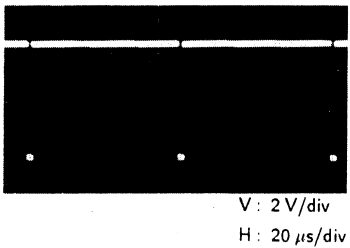
④ TP 408
EE/PB



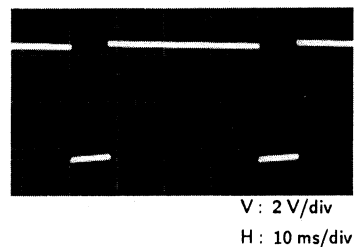
⑤ TP 501
EE/PB



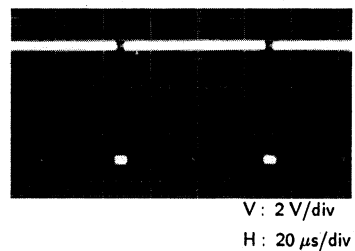
⑥ TP 502
EE/PB



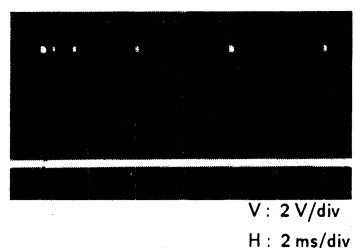
⑦ TP 503
EE/PB



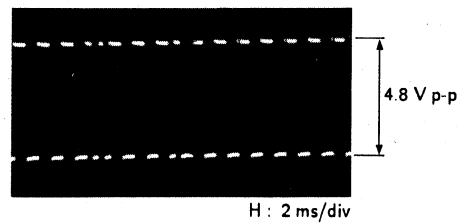
⑧ TP 504
EE/PB



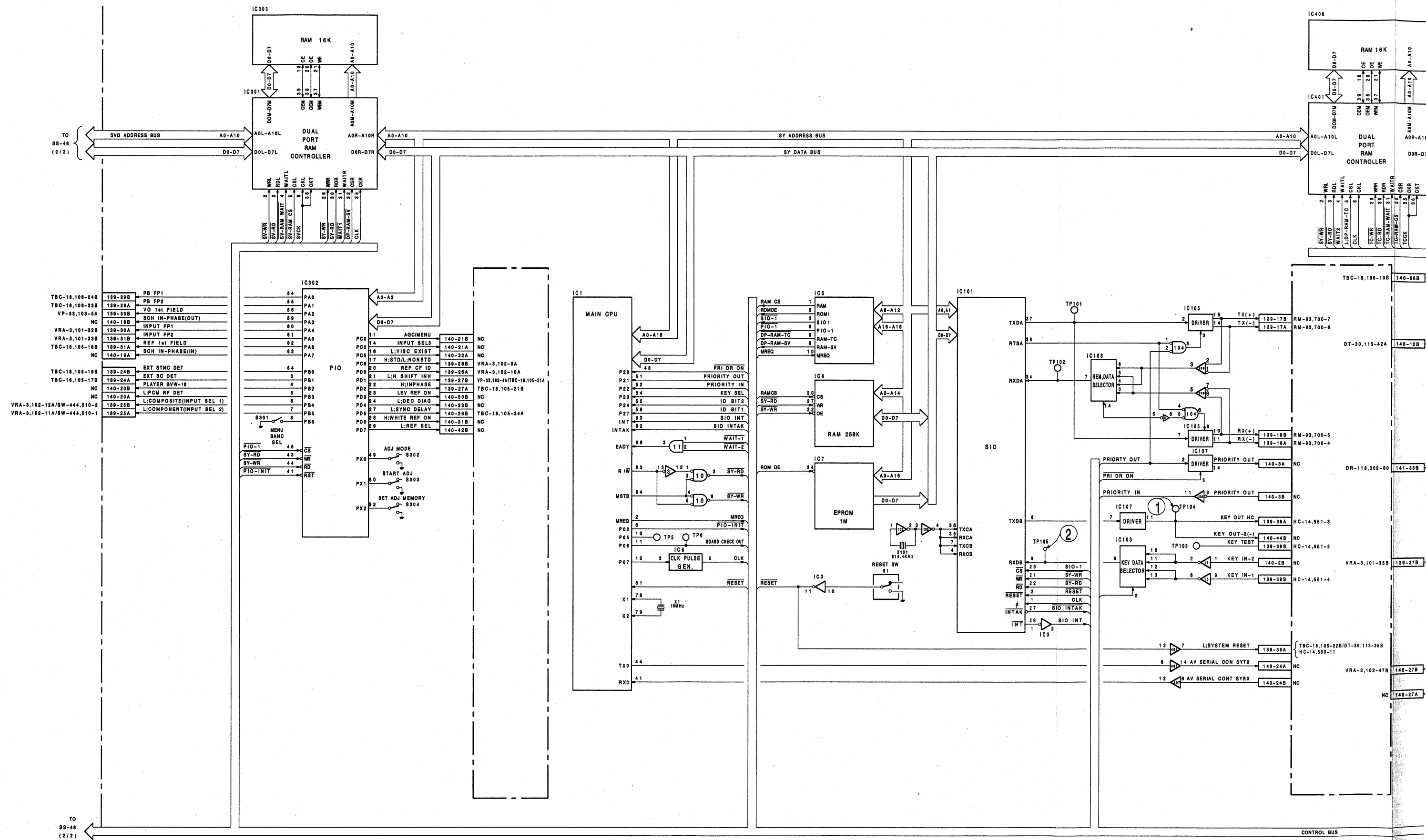
⑨ TP 507
EE/PB

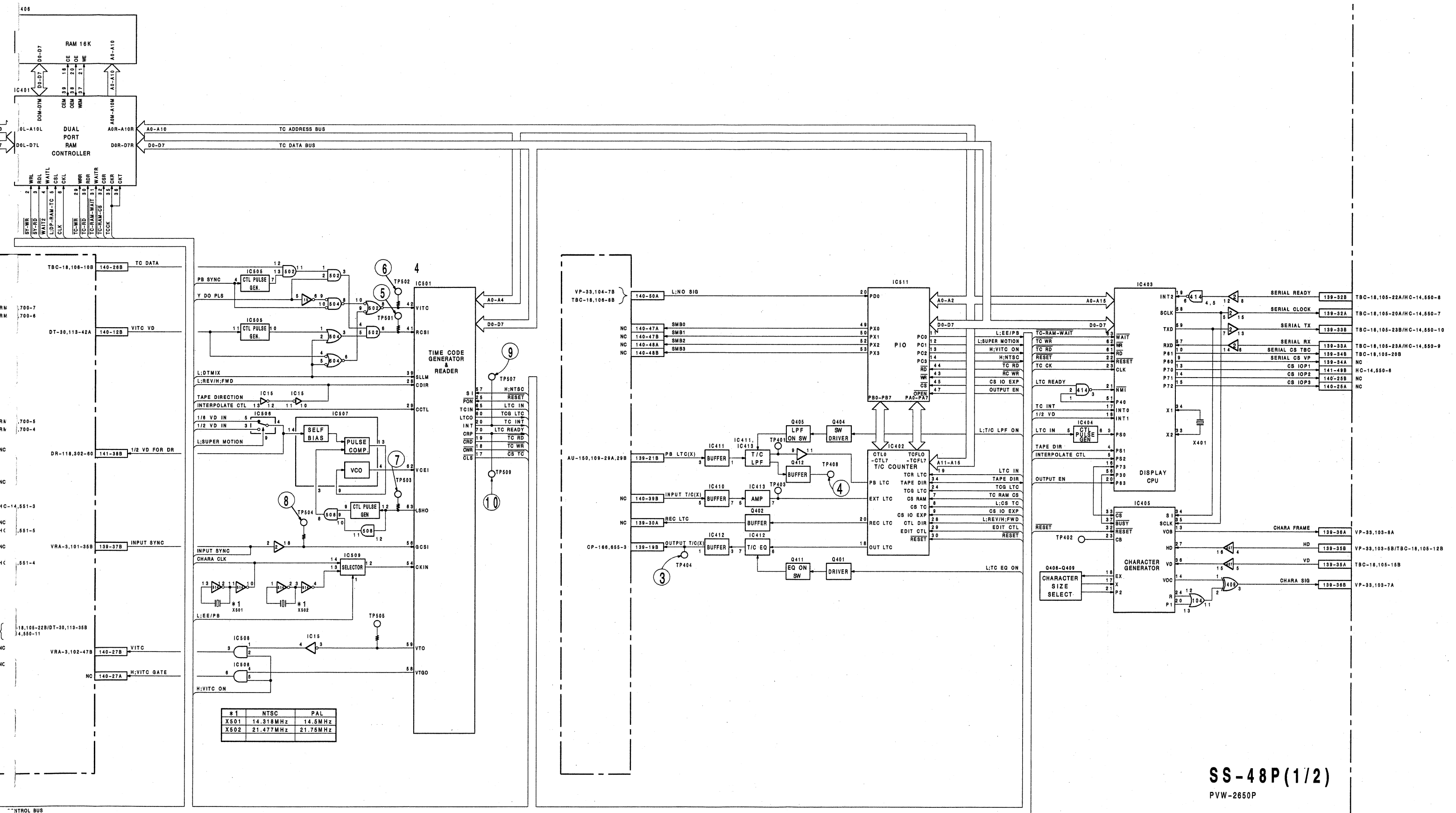


⑩ TP 509
PB

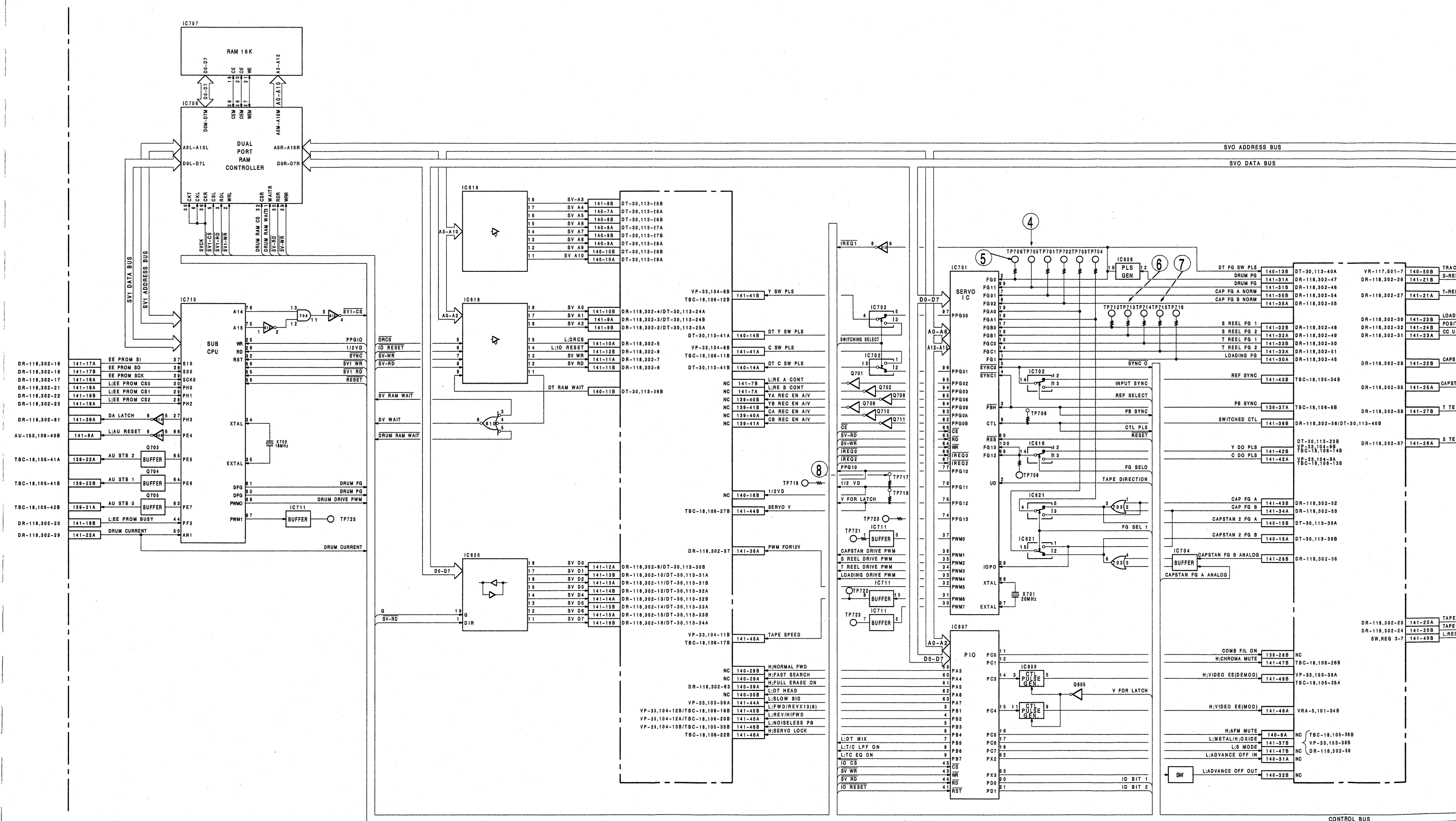


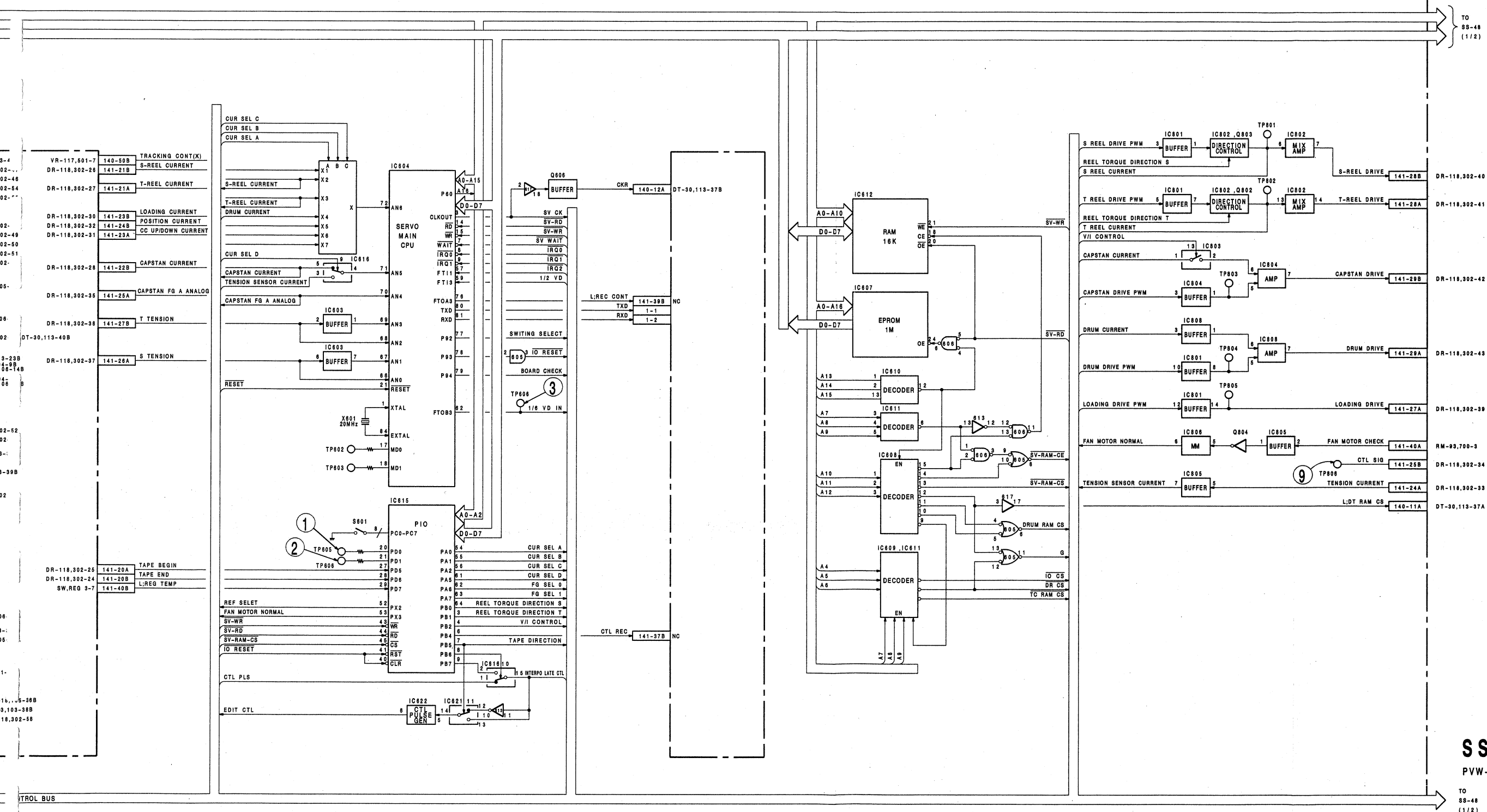
SYSTEM CONTROL(1)



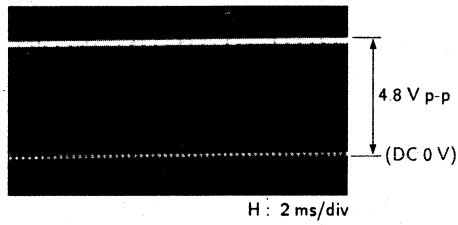


SS-48P(1/2)
PVW-2650P

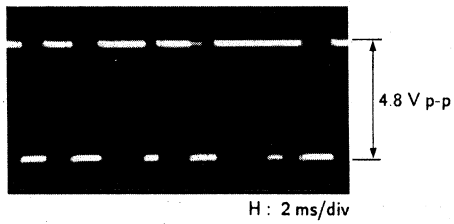




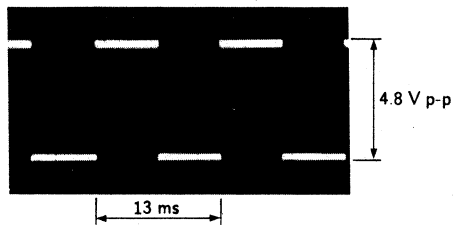
① TP 605
EE/PB



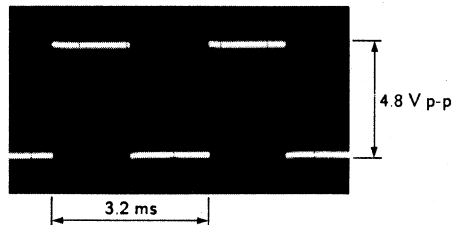
② TP 606
PB



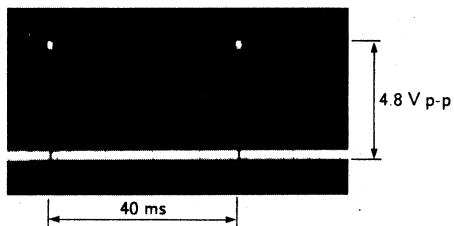
③ TP 607
EE/PB



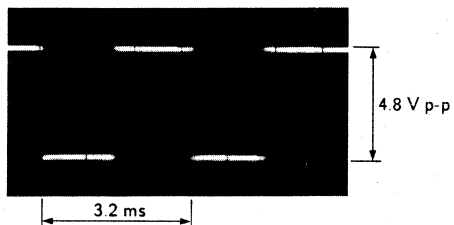
④ TP 705
EE/PB



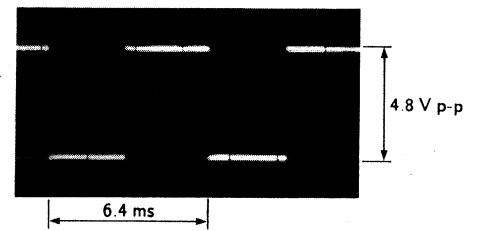
⑤ TP 706
EE/PB



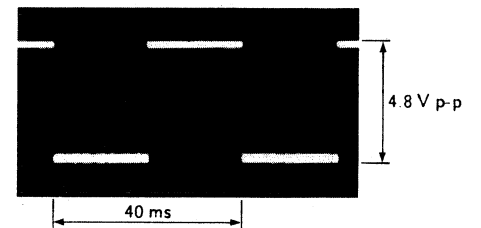
⑥ TP 713
PB



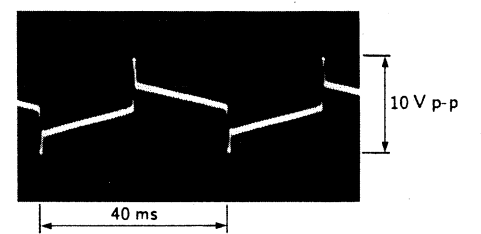
⑦ TP 715
PB



⑧ TP 717
EE/PB

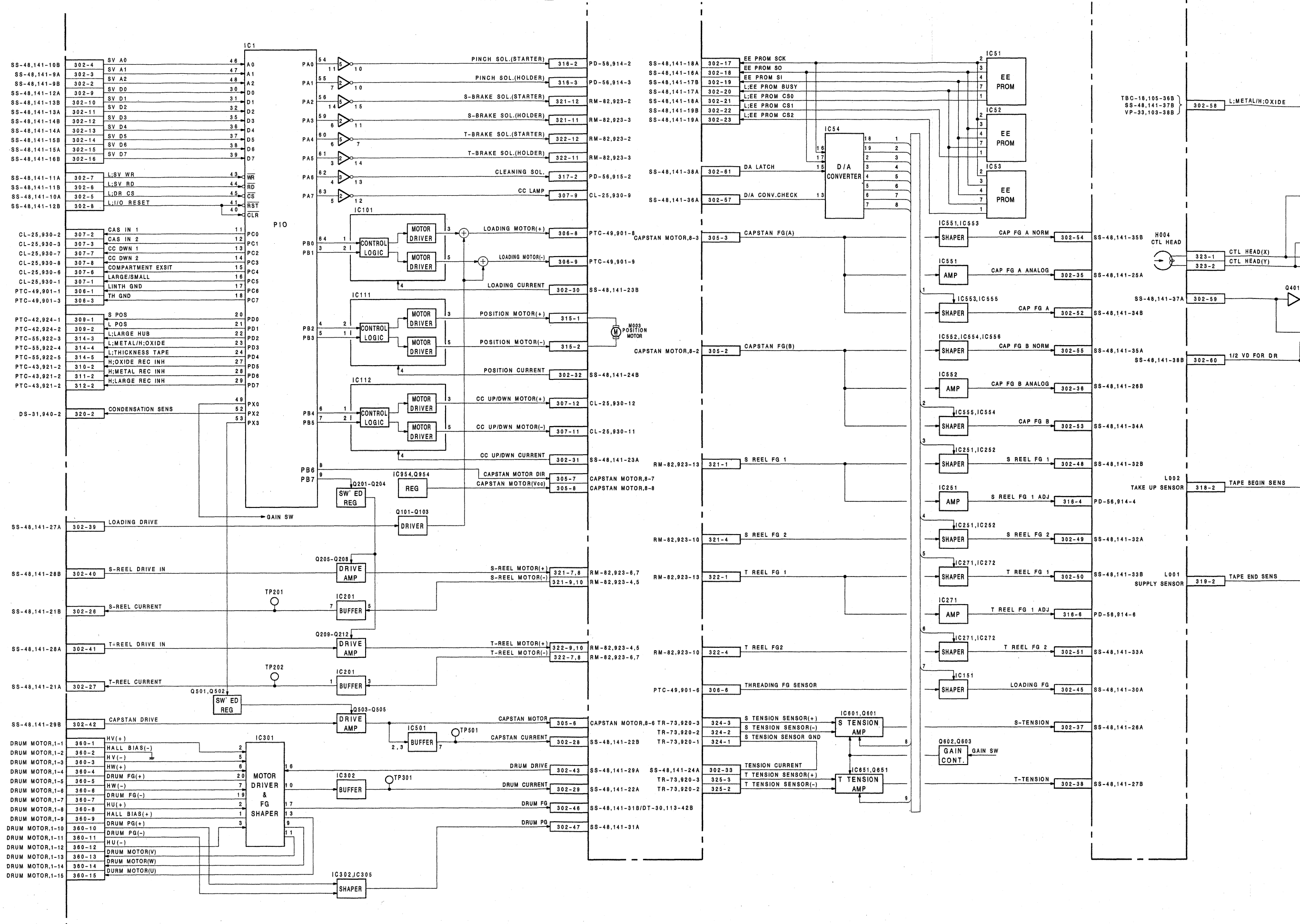


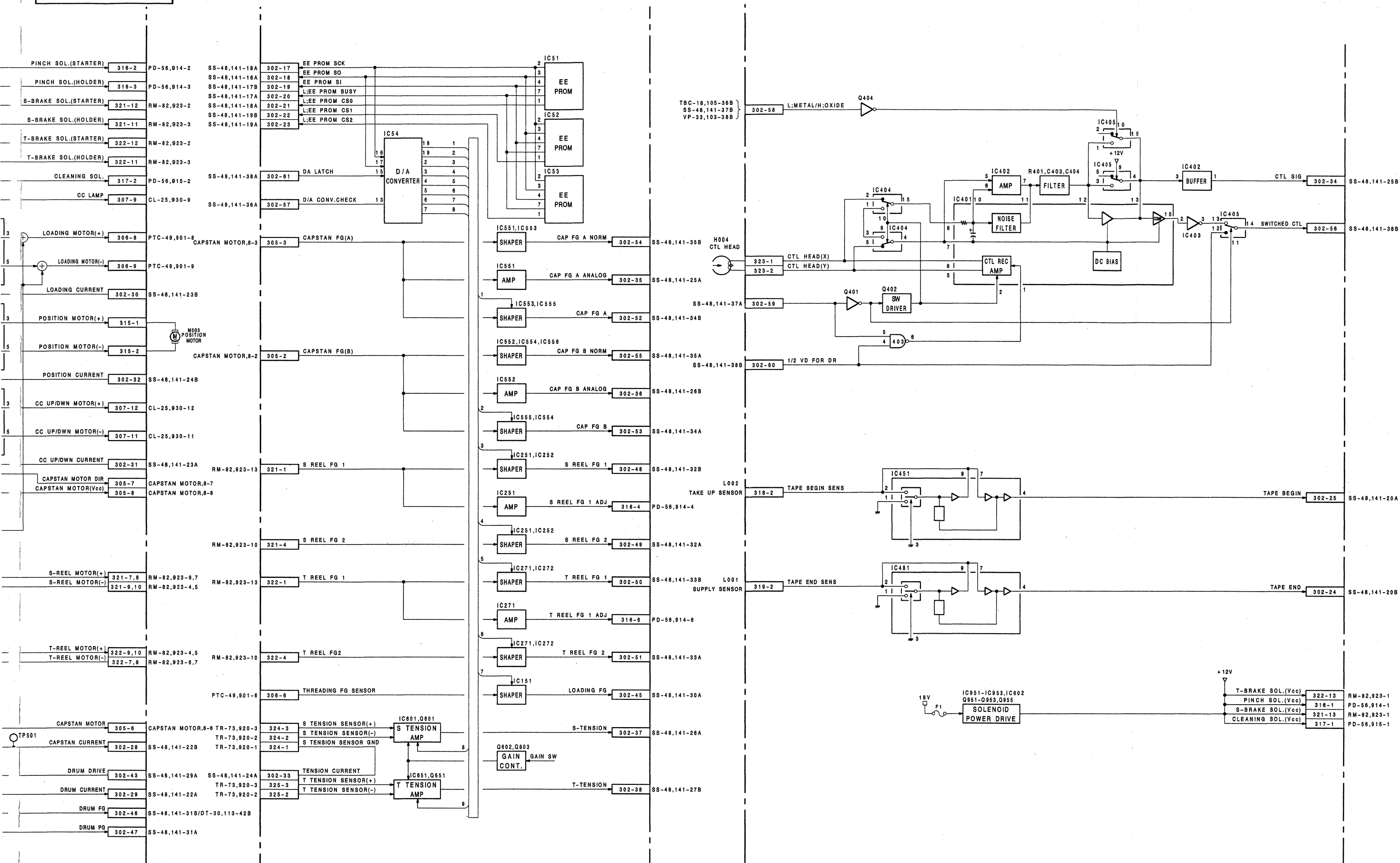
⑨ TP 806
PB



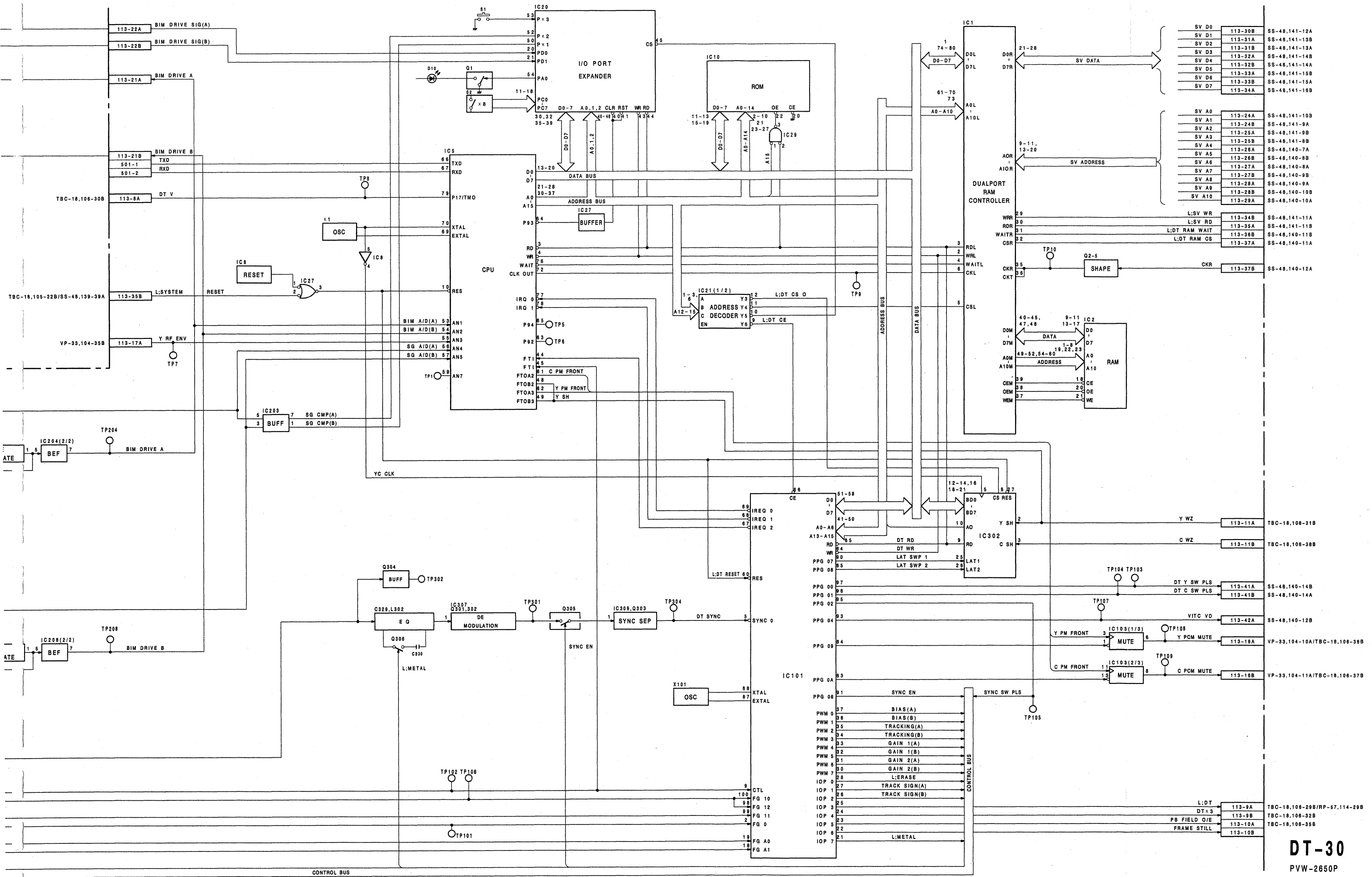
SERVO

SERVO SERVO





DYNAMIC TRACKING DYNAMIC TRACKING



DT-30

PVW-2650P

SECTION 15

BOARD LAYOUT

CIRCUIT CONFIGURATION

The circuit information is provided below.

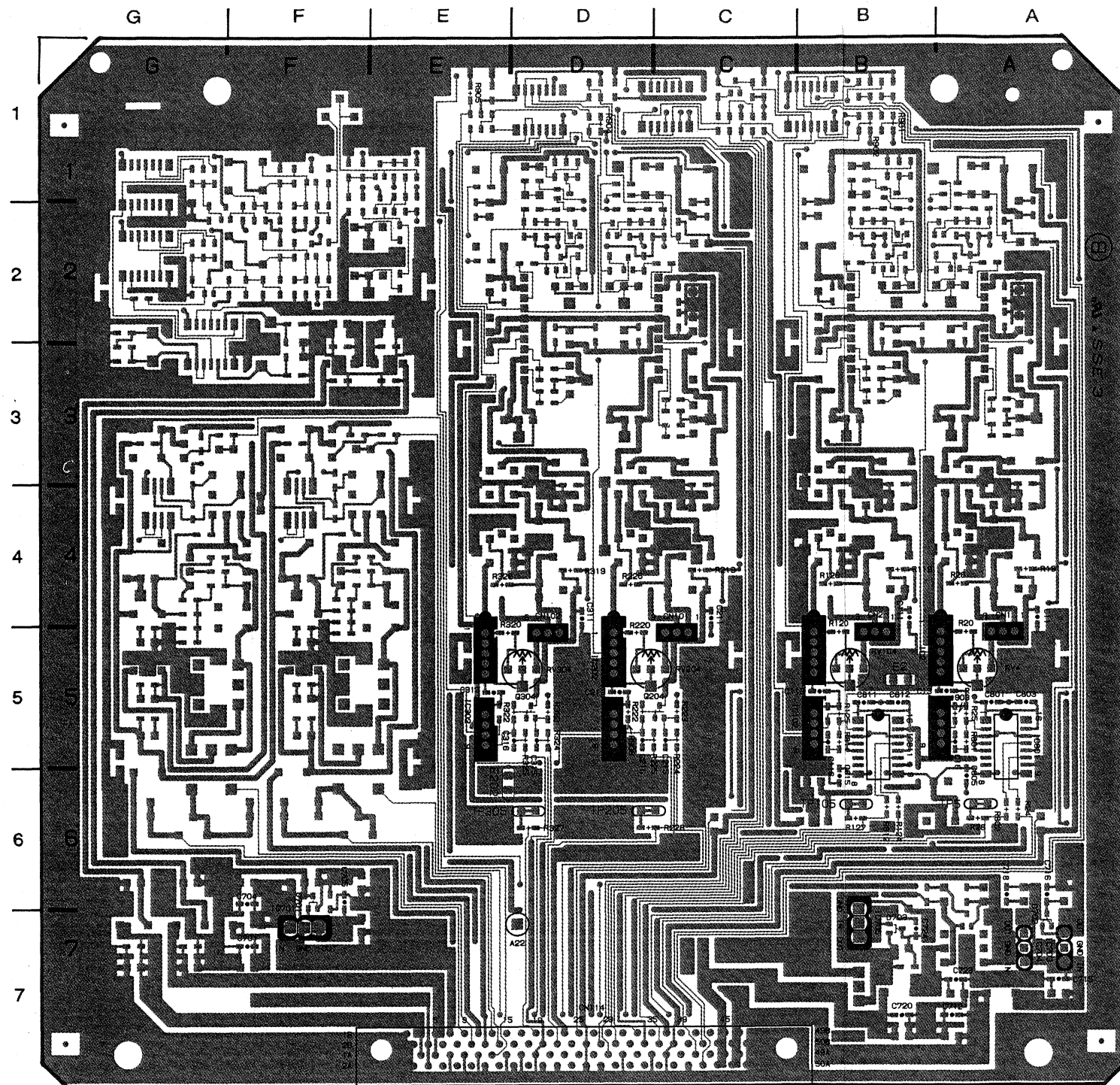
System	Board	Circuit Function
VIDEO	RP-57BP	RF PB Amplifier
	VP-33BP	Y/C PB Process (PB RF EQ, Demod., Encode, Y-RF Envelope DET), Composite Out Driver
	TBC-18P	Time Base Corrector, CTDM (Expand)
	CP-166A	Output Connector, Component Out Driver
AUDIO	AU-148AP	CH-1 PB Process, Dolby System,
	AU-149AP	CH-2 PB Process, Dolby System
	AU-150A	Mode Control, LTC PB
	CP-167A	Input/Output Connector, Line Out Driver
	DP-138B	Audio Level Meter Back Light
	VR-116B	PB Level Control, Headphone Volume Control
SERVO/ SYSTEM CONTROL/ TIME CODE	MA-44B	Meter Driver, Headphone Amplifier
	SS-48P	System Control, Servo System Main, Time Code Reader, Character Generator
	DT-29AP	Dynamic Tracking
	DT-30	Dynamic Tracking
	KY-210B	Keyboard
	DP-139B	Time Code Display
	DR-118A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG Amplifier, CTL PB, Adjust Data Storage
	CL-25	Cassette Compartment (Cassette Loading Begin/Near-end Sensor, LP-57 Connection, Cassette Loading Motor)
	DE-15	Reel FG
	DS-31	Condensation Sensor
	HC-14C	Sub-control Panel
	PC-62	Cassette In/Large Cassette Sensor
	PD-56	Pinch/Cleaning Solenoid Connection, Reel FG Check
	PTC-39	Search Dial
	PTC-42	Cassette Size Sensor
	PTC-49	Threading Motor
	PTC-54	Threading FG
	PTC-55	Cassette Information Sensor (Tape Thickness, Reel Hub Diameter, Metal/Oxide)
	RM-82	Reel Motor
	RM-93A	TBC Remote Connector
OTHERS	SW-444B	Select Switch, Indicator, RF/Video Level Meter
	TR-73	S/T Tension Sensor
	AC-133	AC Line Filter, Fuse
	DP-159B	RF/Video Meter Back Light
	LP-57	Cassette Illumination
	MB-322B	Mother Board

Board	Page
AC-133	15-42
AU-148AP	15-16
AU-149AP	15-18
AU-150A	15-20
CL-25	15-42
CP-166A	15-14
CP-167A	15-22
DE-15	15-42
DP-138B	15-24
DP-139B	15-34
DP-159B	15-44
DR-118A	15-36
DS-31	15-42
DT-29AP	15-30
DT-30	15-32
HC-14C	15-38
KY-210B	15-34
LP-57	15-42
MA-44B	15-24
MB-322B	15-46
PC-62	15-42
PD-56	15-42
PTC-39	15-34
PTC-42	15-42
PTC-49	15-42
PTC-54	15-42
PTC-55	15-42
RM-82	15-42
RM-93A	15-44
RP-57BP	15-4
SS-48P	15-26
SW-444B	15-40
TBC-18P	15-10
TR-73	15-42
VP-33BP	15-6
VR-116B	15-24

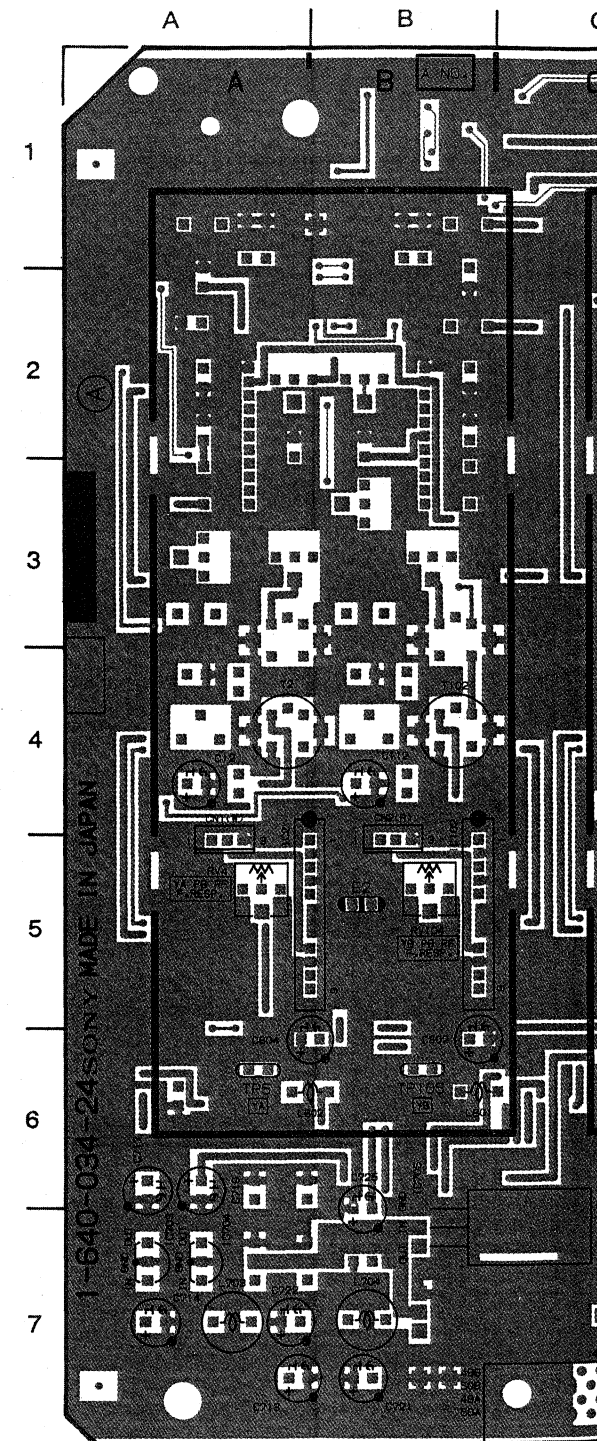
RP-57BP

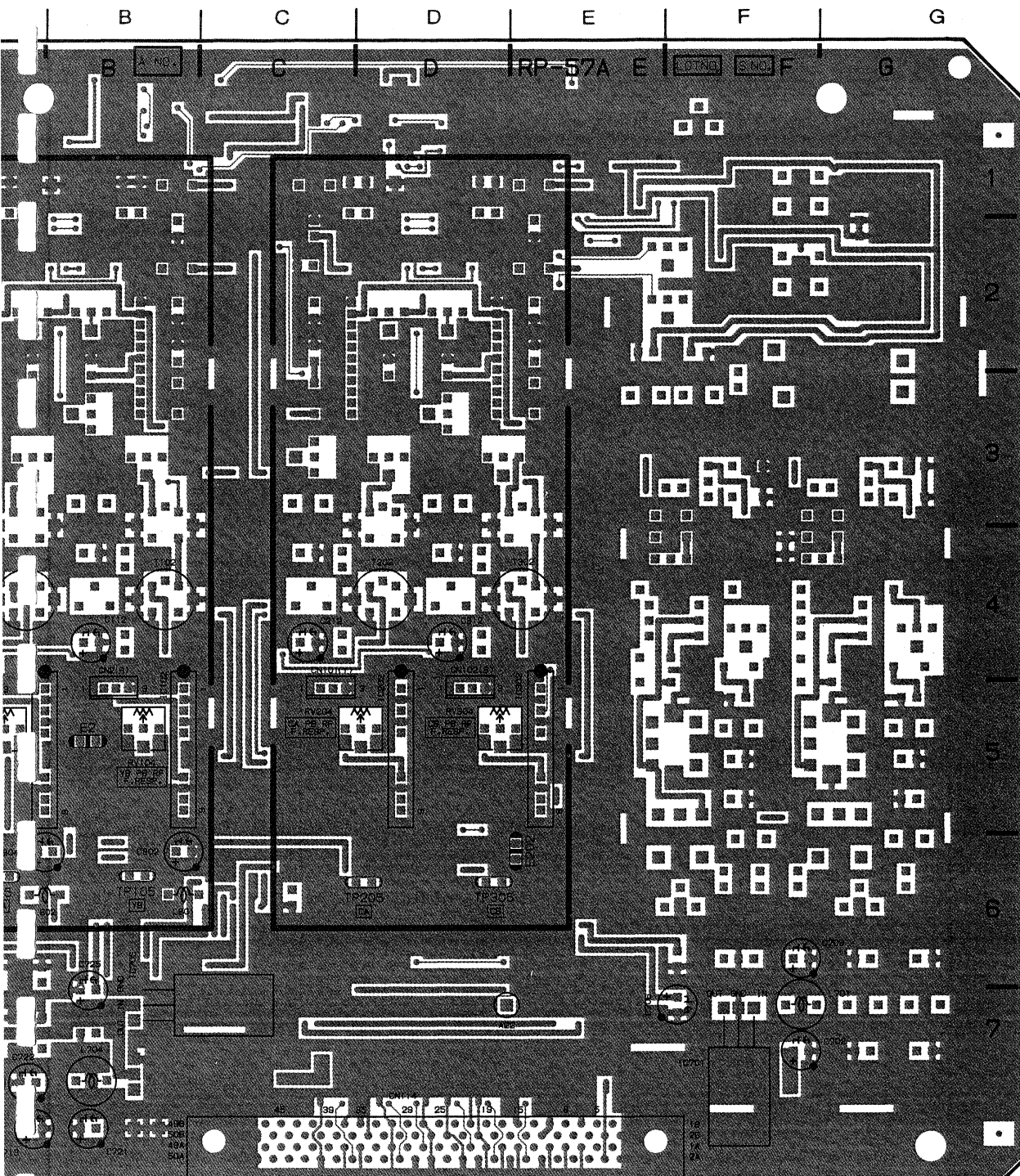
RP-57BP

RP-57BP ; RF PB AMPLIFIER



RP-57BP 1-640-034-24 B SIDE





RP-57BP 1-640-034-24 A SIDE

RP-57BP(1-640-034-24)

CN1 A-5
CN2 B-5
CN101 C-5
CN102 D-5
CN114 D-7

*D701 F-6
*D702 A-7
*D703 B-7

E2 B-5
E202 E-6

IC2 A-5
IC102 B-5
IC202 D-5
IC302 E-5
IC701 F-7
IC703 A-7
IC704 A-7
IC705 B-7
*IC801 A-5
*IC811 B-5

L701 F-7
L703 A-7
L704 B-7
L801 B-6
L802 A-6

*Q204 C-5
*Q304 D-5

RV4 A-5
RV104 B-5
RV204 D-5
RV304 D-5

TP5 A-6
TP105 B-6
TP205 D-6
TP305 D-6

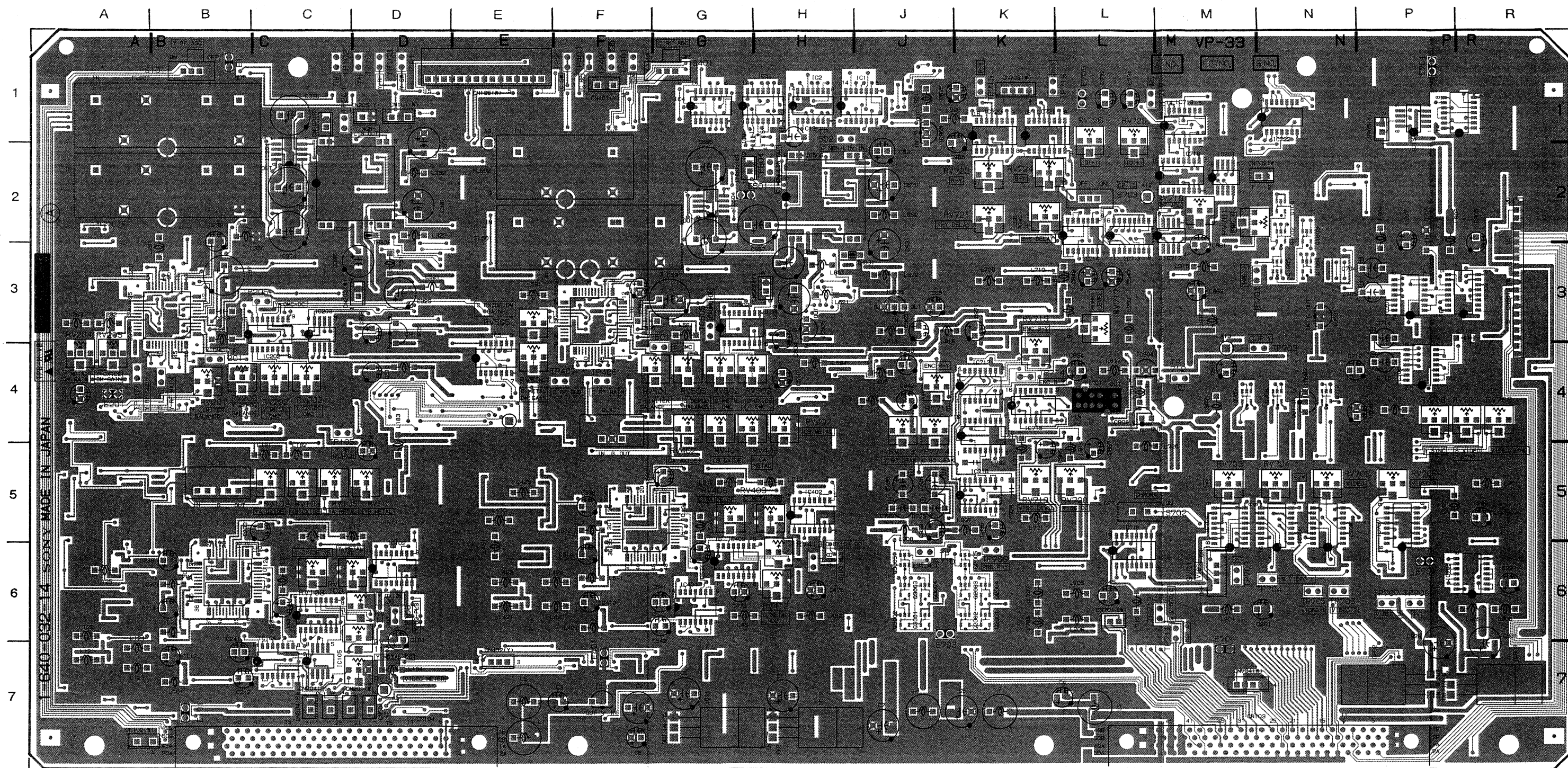
T2 A-4
T102 B-4
T202 D-4
T302 E-4

*; B SIDE

VP-33BP

VP-33BP

VP-33BP ; Y/C PB PROCESS (PB RF EQ, DEMOD, ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER



VP-33BP 1-640-032-14 A SIDE

VP-33BP

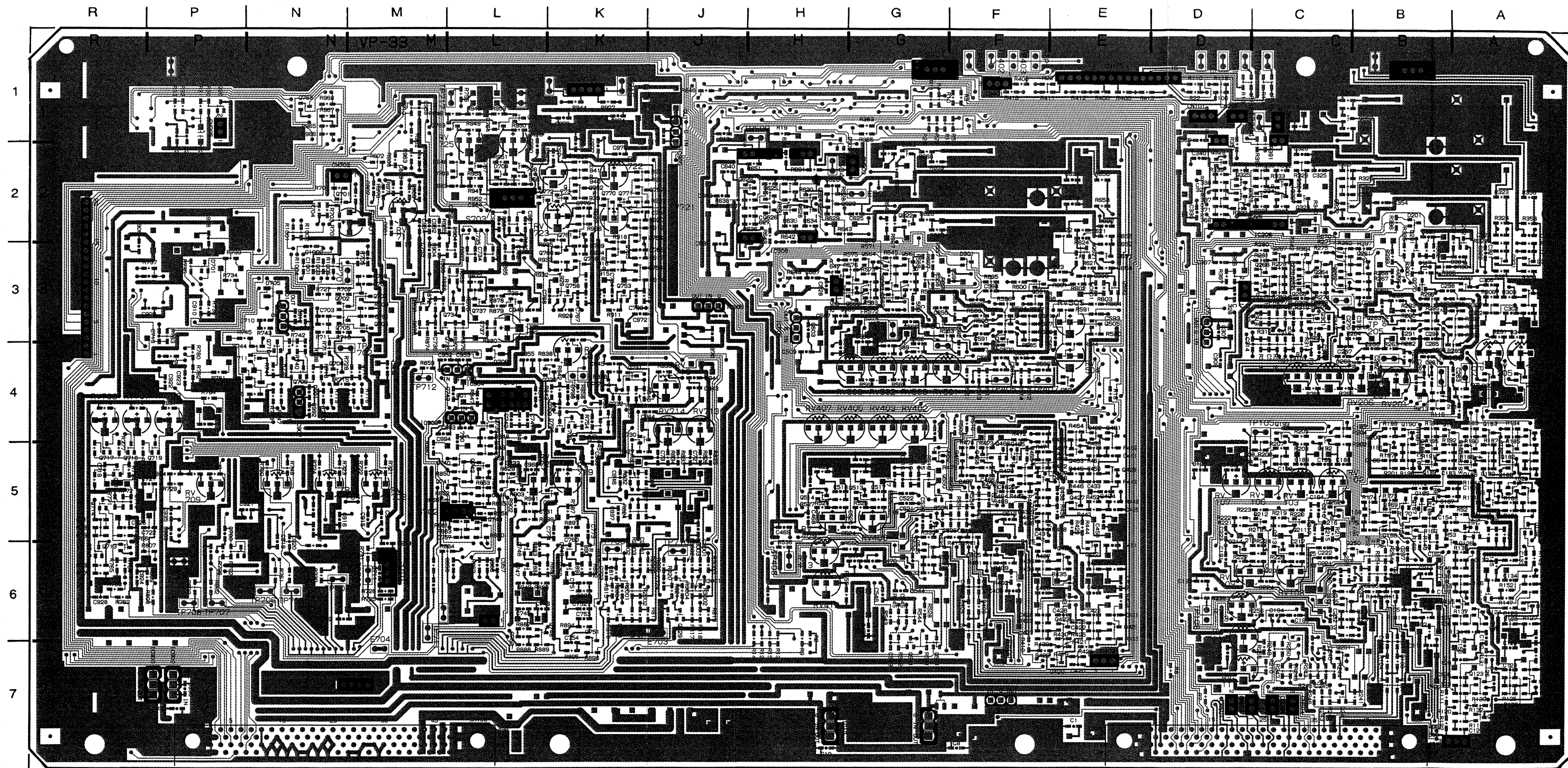
VP-33BP

VP-33BP(1-640-032-14)

CN101	D-1	IC104	C-7	L294	D-4	*Q164	B-5	*Q550	G-5	*Q761	K-2	RV719	K-5
CN102	A-7	IC105	C-7	L321	D-3	*Q165	B-5	*Q552	G-5	*Q762	K-2	RV720	L-5
CN103	N-7	IC201	B-3	L322	D-2	*Q167	B-5	*Q561	G-3	*Q763	L-1	RV721	K-2
CN104	C-7	IC202	B-4	L351	D-3	*Q168	B-5	*Q562	G-3	*Q764	L-1	RV722	K-2
CN105	E-1	IC203	C-4	L352	D-2	*Q169	B-5	*Q563	G-3	*Q765	L-1	RV723	K-2
CN201	C-7	IC204	C-2	L401	F-6	*Q181	A-4	*Q564	G-3	*Q766	L-2	RV724	K-2
CN202	D-3	IC205	D-3	L423	F-6	*Q182	A-5	*Q565	G-3	*Q767	L-2	RV725	L-1
CN203	C-1	IC206	C-2	L424	F-6	*Q183	A-5	*Q566	G-3	*Q768	N-1	RV726	L-1
CN204	C-7	IC401	F-5	L461	G-6	*Q184	A-4	*Q570	F-4	*Q770	K-2		
CN205	D-1	IC402	H-5	L462	H-6	*Q185	A-5	*Q591	F-3	*Q771	K-2	S101	B-1
CN401	F-1	IC403	G-6	L511	F-6	*Q186	A-5	*Q592	E-3	*Q772	L-2	S401	G-1
CN402	E-7	IC404	G-6	L512	G-5	*Q187	B-4	*Q621	E-3	*Q773	K-2	S701	M-6
CN501	D-7	IC501	F-3	L513	H-5	*Q188	B-5	*Q622	G-2	Q1001	N-2	S702	L-5
CN502	H-3	IC502	G-4	L531	G-5	*Q189	B-5	*Q623	H-2	Q1002	N-2	S703	L-2
CN503	G-2	IC506	H-2	L532	F-5	*Q190	B-4	*Q624	H-2	Q1003	N-2		
CN504	C-7	IC605	H-3	L561	G-3	*Q191	B-5	*Q625	H-2	Q1004	N-3	TH301	D-2
CN701	L-6	IC701	P-3	L591	E-3	*Q192	C-4	*Q626	H-2	Q1005	N-3	TH601	H-3
CN702	N-2	IC702	R-3	L594	H-4	*Q193	C-4	*Q627	H-2	Q2001	K-6		
CN703	K-1	IC703	R-6	L621	H-3	*Q194	C-5	*Q628	H-2	Q2002	K-6	TP1	D-1
CN704	M-7	IC704	M-6	L622	J-3	*Q201	C-7	*Q629	H-2	Q2003	K-6	TP2	F-1
CN705	P-1	IC705	N-6	L651	H-3	*Q204	A-4	*Q701	N-2	Q2004	K-6	TP101	D-1
CN801	R-3	IC706	N-6	L652	J-2	*Q205	A-4	*Q702	N-3	Q2005	K-6	TP102	C-1
DL101	B-5	IC707	P-6	L701	R-5	*Q211	C-5	*Q703	M-3	Q3001	J-6	TP103	D-1
DL401	F-4	IC708	P-4	L702	P-5	*Q212	C-5	*Q704	M-3	Q3002	J-6	TP105	C-4
		IC710	K-5	L703	L-3	*Q213	C-6	*Q705	N-3	Q3003	J-6	TP106	B-4
		IC711	K-5	L704	L-4	*Q214	D-6	*Q706	N-4	Q3004	J-6	TP107	A-4
*D1	G-7	IC712	K-4	L705	L-6	*Q215	C-6	*Q707	M-4	Q3005	J-6	TP108	D-6
*D201	B-2	IC713	L-3	L706	L-6	*Q241	C-7	Q708	N-4			TP201	B-4
*D501	F-3	IC714	L-3	L707	K-6	*Q250	B-6	*Q709	N-4	RV102	C-5	TP204	C-1
*D502	H-2	IC715	K-4	L708	K-6	*Q252	C-5	*Q710	N-4	RV103	C-5	TP205	C-3
*D701	P-3	IC716	L-6	L709	K-3	*Q261	B-3	*Q711	N-4	RV106	C-5	TP401	F-1
*D702	N-4	IC717	M-3	L710	K-3	*Q262	C-3	Q712	N-4	RV107	D-5	TP402	F-1
*D703	L-2	IC718	M-2	L711	P-4	*Q263	C-3	*Q713	R-6	RV108	C-6	TP403	F-1
*D704	L-2	IC719	M-1	L712	L-6	*Q264	C-3	*Q714	R-5	RV109	C-6	TP406	F-4
*D705	N-3	IC720	K-2	L901	M-6	*Q265	C-3	*Q715	R-6	RV111	D-7	TP407	F-4
*D706	L-4	IC721	K-2	L902	M-4	*Q266	C-3	*Q716	R-5	RV112	D-6	TP408	H-6
*D707	P-6	IC722	N-1	L903	P-2	*Q267	C-3	*Q717	R-5	RV113	D-6	TP501	G-4
*D708	K-4	IC901	N-3	L904	P-2	*Q268	C-3	*Q718	R-5	RV201	B-4	TP502	H-1
*D709	K-4	IC902	P-7	L905	R-6	*Q269	C-3	*Q719	P-5	RV202	C-4	TP504	H-2
		IC903	P-7	L906	R-6	*Q270	B-3	*Q728	K-6	RV203	C-4	TP505	G-3
		IC904	L-4	L907	K-5	*Q291	B-3	*Q729	J-6	RV204	A-4	TP701	N-3
E1	B-1	IC905	J-1	L908	J-5	*Q292	A-3	*Q730	K-4	RV205	A-4	TP702	N-4
E101	B-7	IC906	J-3	L909	J-4	*Q293	A-3	*Q731	K-4	RV206	B-4	TP703	M-6
E201	A-4	IC907	N-4	L910	J-4	*Q294	A-3	*Q732	K-4	RV402	G-4	TP704	N-6
E401	F-7	IC908	L-4	L911	L-3	*Q301	C-3	*Q733	K-4	RV403	G-4	TP705	N-6
E501	G-2			L912	L-3	*Q321	A-3	*Q734	L-3	RV406	G-4	TP706	N-6
E701	P-1			L913	K-5	*Q322	C-2	*Q735	M-3	RV407	H-4	TP707	P-6
E702	P-6	L1	E-7	L914	L-5	*Q323	C-2	*Q736	M-3	RV408	G-5	TP708	P-6
E703	J-6	L2	L-7	L915	M-3	*Q324	C-2	*Q737	L-3	RV409	H-5	TP709	K-6
E704	M-7	L3	K-7	L916	M-3	*Q325	D-2	*Q738	L-3	RV412	H-6	TP710	J-6
E705	L-1	L4	J-7	L917	L-4	*Q326	D-2	*Q739	L-4	RV413	H-6	TP711	M-6
		L5	E-7	L918	J-3	*Q327	C-2	*Q740	L-5	RV501	G-4	TP712	M-4
FL201	B-2	L101	B-7	L919	J-3	*Q328	C-2	*Q741	L-5	RV502	G-4	TP713	L-6
FL202	B-1	L121	A-7	L920	J-1	*Q329	D-2	*Q742	L-5	RV503	G-4	TP714	K-4
FL501	F-2	L122	A-6	L921	J-1	*Q351	A-3	*Q743	L-5	RV505	E-3	TP715	K-1
FL701	L-4	L123	A-7			*Q352	C-1	*Q746	L-6	RV506	G-4	TP716	K-1
		L124	A-7			*Q420	E-7	*Q747	L-6	RV701	M-2	TP717	L-1
IC1	H-1	L125	A-6	*Q20	P-1	*Q423	E-6	*Q748	L-6	RV703	M-5		
IC2	H-1	L181	C-5	*Q120	A-7	*Q424	E-6	*Q749	K-6	RV704	N-5		
IC3	G-1	L182	C-5	*Q121	A-7	*Q425	F-6	*Q750	K-6	RV705	N-5		
IC4	G-1	L183	D-5	*Q122	A-6	*Q426	F-5	*Q751	K-7	RV706	R-4		
IC5	E-4	L184	D-7	*Q123	A-7	*Q464	F-5	*Q752	K-5	RV707	R-4		
IC6	H-1	L211	B-6	*Q124	A-6	*Q466	F-5	*Q753	K-3	RV708	P-4		
IC10	F-7	L212	C-5	*Q125	A-6	*Q467	F-5	*Q754	K-3	RV709	P-5		
IC11	G-7	L213	C-5	*Q126	A-6	*Q468	F-5	*Q755	K-3	RV712	L-3		
IC12	H-7	L231	C-6	*Q127	A-6	*Q501	G-7	*Q756	K-2	RV713	J-4		
IC13	P-1	L232	B-6	*Q128	A-5	*Q513	G-5	*Q757	K-2	RV714	J-4		
IC14	R-1	L261	B-3	*Q151	A-5	*Q514	H-5	*Q758	K-3	RV715	K-4		
IC101	B-6	L291	B-3	*Q161	A-5	*Q515	G-6	*Q759	K-3	RV716	J-4		
IC102	D-6	L292	A-3	*Q162	A-5	*Q541	G-7	*Q760	K-3	RV718	M-2		
IC103	C-6	L293	A-3	*Q163	A-5								

*: B side

15-8(b)



VP-33BP 1-640-032-14 B SIDE

VP-33BP

VP-33BP

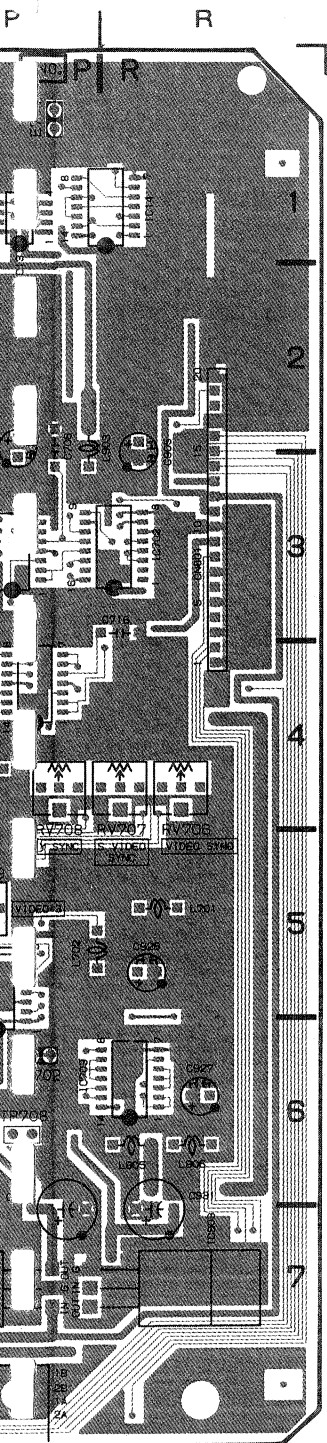
CODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER



VP-33BP(1-640-032-14)

CN101	D-1	IC104	C-7	L294	D-4	*Q164	B-5	*Q550	G-5	*Q761	K-2	RV719	K-5
CN102	A-7	IC105	C-7	L321	D-3	*Q165	B-5	*Q552	G-5	*Q762	K-2	RV720	L-5
CN103	N-7	IC201	B-3	L322	D-2	*Q167	B-5	*Q561	G-3	*Q763	L-1	RV721	K-2
CN104	C-7	IC202	B-4	L351	D-3	*Q168	B-5	*Q562	G-3	*Q764	L-1	RV722	K-2
CN105	E-1	IC203	C-4	L352	D-2	*Q169	B-5	*Q563	G-3	*Q765	L-1	RV723	K-2
CN201	C-7	IC204	C-2	L401	F-6	*Q181	A-4	*Q564	G-3	*Q766	L-2	RV724	K-2
CN202	D-3	IC205	D-3	L423	F-6	*Q182	A-5	*Q565	G-3	*Q767	L-2	RV725	L-1
CN203	C-1	IC206	C-2	L424	F-6	*Q183	A-5	*Q566	G-3	*Q768	N-1	RV726	L-1
CN204	C-7	IC401	F-5	L461	G-6	*Q184	A-4	*Q570	F-4	*Q770	K-2		
CN205	D-1	IC402	H-5	L462	H-6	*Q185	A-5	*Q591	F-3	*Q771	K-2	S101	B-1
CN401	F-1	IC403	G-6	L511	F-6	*Q186	A-5	*Q592	E-3	*Q772	L-2	S401	G-1
CN402	E-7	IC404	G-6	L512	G-5	*Q187	B-4	*Q621	E-3	*Q773	K-2	S701	M-6
CN501	D-7	IC501	F-3	L513	H-5	*Q188	B-5	*Q622	G-2	Q1001	N-2	S702	L-5
CN502	H-3	IC502	G-4	L531	G-5	*Q189	B-5	*Q623	H-2	Q1002	N-2	S703	L-2
CN503	G-2	IC506	H-2	L532	F-5	*Q190	B-4	*Q624	H-2	Q1003	N-2		
CN504	C-7	IC605	H-3	L561	G-3	*Q191	B-5	*Q625	H-2	Q1004	N-3	TH301	D-2
CN701	L-6	IC701	P-3	L591	E-3	*Q192	C-4	*Q626	H-2	Q1005	N-3	TH601	H-3
CN702	N-2	IC702	R-3	L594	H-4	*Q193	C-4	*Q627	H-2	Q2001	K-6		
CN703	K-1	IC703	R-6	L621	H-3	*Q194	C-5	*Q628	H-2	Q2002	K-6	TP1	D-1
CN704	M-7	IC704	M-6	L622	J-3	*Q201	C-7	*Q629	H-2	Q2003	K-6	TP2	F-1
CN705	P-1	IC705	N-6	L651	H-3	*Q204	A-4	*Q701	N-2	Q2004	K-6	TP101	D-1
CN801	R-3	IC706	N-6	L652	J-2	*Q205	A-4	*Q702	N-3	Q2005	K-6	TP102	C-1
		IC707	P-6	L701	R-5	*Q211	C-5	*Q703	M-3	Q3001	J-6	TP103	D-1
DL101	B-5	IC708	P-4	L702	P-5	*Q212	C-5	*Q704	M-3	Q3002	J-6	TP105	C-4
DL401	F-4	IC710	K-5	L703	L-3	*Q213	C-6	*Q705	N-3	Q3003	J-6	TP106	B-4
		IC711	K-5	L704	L-4	*Q214	D-6	*Q706	N-4	Q3004	J-6	TP107	A-4
*D1	G-7	IC712	K-4	L705	L-6	*Q215	C-6	Q707	M-4	Q3005	J-6	TP108	D-6
*D201	B-2	IC713	L-3	L706	L-6	*Q241	C-7	Q708	N-4			TP201	B-4
*D501	F-3	IC714	L-3	L707	K-6	*Q250	B-6	*Q709	N-4	RV102	C-5	TP204	C-1
*D502	H-2	IC715	K-4	L708	K-6	*Q252	C-5	*Q710	N-4	RV103	C-5	TP205	C-3
*D701	P-3	IC716	L-6	L709	K-3	*Q261	B-3	*Q711	N-4	RV106	C-5	TP401	F-1
*D702	N-4	IC717	M-3	L710	K-3	*Q262	C-3	Q712	N-4	RV107	D-5	TP402	F-1
*D703	L-2	IC718	M-2	L711	P-4	*Q263	C-3	*Q713	R-6	RV108	C-6	TP403	F-1
*D704	L-2	IC719	M-1	L712	L-6	*Q264	C-3	*Q714	R-5	RV109	C-6	TP406	F-4
*D705	N-3	IC720	K-2	L901	M-6	*Q265	C-3	*Q715	R-6	RV111	D-7	TP407	F-4
*D706	L-4	IC721	K-2	L902	M-4	*Q266	C-3	*Q716	R-5	RV112	D-6	TP408	H-6
*D707	P-6	IC722	N-1	L903	P-2	*Q267	C-3	*Q717	R-5	RV113	D-6	TP501	G-4
*D708	K-4	IC901	N-3	L904	P-2	*Q268	C-3	*Q718	R-5	RV201	B-4	TP502	H-1
*D709	K-4	IC902	P-7	L905	R-6	*Q269	C-3	*Q719	P-5	RV202	C-4	TP504	H-2
		IC903	P-7	L906	R-6	*Q270	B-3	*Q728	K-6	RV203	C-4	TP505	G-3
E1	B-1	IC904	L-4	L907	K-5	*Q291	B-3	*Q729	J-6	RV204	A-4	TP701	N-3
E101	B-7	IC905	J-1	L908	J-5	*Q292	A-3	*Q730	K-4	RV205	A-4	TP702	N-4
E201	A-4	IC906	J-3	L909	J-4	*Q293	A-3	*Q731	K-4	RV206	B-4	TP703	M-6
E401	F-7	IC907	N-4	L910	J-4	*Q294	A-3	*Q732	K-4	RV402	G-4	TP704	N-6
E501	G-2	IC908	L-4	L911	L-3	*Q301	C-3	*Q733	K-4	RV403	G-4	TP705	N-6
E701	P-1			L912	L-3	*Q321	A-3	*Q734	L-3	RV406	G-4	TP706	N-6
E702	P-6	L1	E-7	L913	K-5	*Q322	C-2	*Q735	M-3	RV407	H-4	TP707	P-6
E703	J-6	L2	L-7	L914	L-5	*Q323	C-2	*Q736	M-3	RV408	G-5	TP708	P-6
E704	M-7	L3	K-7	L915	M-3	*Q324	C-2	*Q737	L-3	RV409	H-5	TP709	K-6
E705	L-1	L4	J-7	L916	M-3	*Q325	D-2	*Q738	L-3	RV412	H-6	TP710	J-6
		L5	E-7	L917	L-4	*Q326	D-2	*Q739	L-4	RV413	H-6	TP711	M-6
FL201	B-2	L101	B-7	L918	J-3	*Q327	C-2	*Q740	L-5	RV501	G-4	TP712	M-4
FL202	B-1	L121	A-7	L919	J-3	*Q328	C-2	*Q741	L-5	RV502	G-4	TP713	L-6
FL501	F-2	L122	A-6	L920	J-1	*Q329	D-2	*Q742	L-5	RV503	G-4	TP714	K-4
FL701	L-4	L123	A-7	L921	J-1	*Q351	A-3	*Q743	L-5	RV505	E-3	TP715	K-1
		L124	A-7			*Q352	C-1	*Q746	L-6	RV506	G-4	TP716	K-1
IC1	H-1	L125	A-6	*Q20	P-1	*Q420	E-7	*Q747	L-6	RV701	M-2	TP717	L-1
IC2	H-1	L181	C-5	*Q120	A-7	*Q423	E-6	*Q748	L-6	RV703	M-5		
IC3	G-1	L182	C-5	*Q121	A-7	*Q424	E-6	*Q749	K-6	RV704	N-5		
IC4	G-1	L183	D-5	*Q122	A-6	*Q425	F-6	*Q750	K-6	RV705	N-5		
IC5	E-4	L184	D-7	*Q123	A-7	*Q426	F-5	*Q751	K-7	RV706	R-4		
IC6	H-1	L211	B-6	*Q124	A-6	*Q464	F-5	*Q752	K-5	RV707	R-4		
IC10	F-7	L212	C-5	*Q125	A-6	*Q466	F-5	*Q753	K-3	RV708	P-4		
IC11	G-7	L213	C-5	*Q126	A-6	*Q467	F-5	*Q754	K-3	RV709	P-5		
IC12	H-7	L231	C-6	*Q127	A-6	*Q468	F-5	*Q755	K-3	RV712	L-3		
IC13	P-1	L232	B-6	*Q128	A-5	*Q501	G-7	*Q756	K-2	RV713	J-4		
IC14	R-1	L261	B-3	*Q151	A-5	*Q513	G-5	*Q757	K-2	RV714	J-4		
IC101	B-6	L291	B-3	*Q161	A-5	*Q514	H-5	*Q758	K-3	RV715	K-4		
IC102	D-6	L292	A-3	*Q162	A-5	*Q515	G-6	*Q759	K-3	RV716	J-4		
IC103	C-6	L293	A-3	*Q163	A-5	*Q541	G-7	*Q760	K-3	RV718	M-2		

*: B side



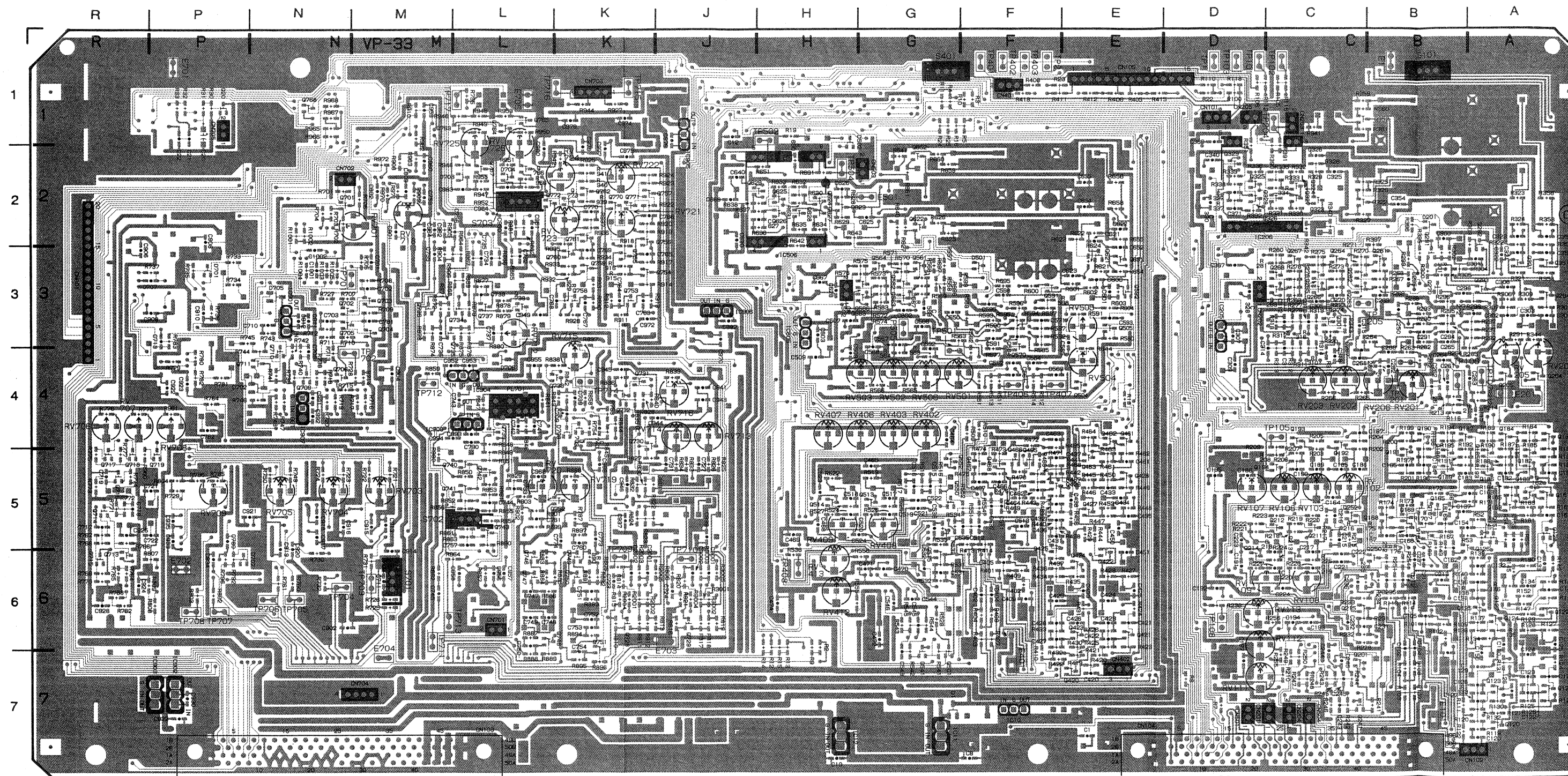
1-640-032-13 A SIDE

VP-33BP(1-640-032-13)

CN101	D-1	IC203	C-4	L352	D-2	*Q169	B-5	*Q622	G-2	Q1001	N-2	S702	L-5
CN102	A-7	IC204	C-2	L401	F-6	*Q181	A-4	*Q623	H-2	Q1002	N-2	S703	L-2
CN103	N-7	IC205	D-3	L423	F-6	*Q182	A-5	*Q624	H-2	Q1003	N-2		
CN104	C-7	IC206	C-2	L424	F-6	*Q183	A-5	*Q625	H-2	Q1004	N-3	TP1	D-1
CN105	E-1	IC401	F-5	L461	G-6	*Q184	A-4	*Q626	H-2	Q1005	N-3	TP2	F-1
CN203	C-1	IC402	H-5	L462	H-6	*Q185	A-5	*Q627	H-2	Q2001	K-6	TP101	D-1
CN204	C-7	IC403	G-6	L511	F-6	*Q186	A-5	*Q628	H-2	Q2002	K-6	TP102	C-1
CN205	D-1	IC404	G-6	L512	G-5	*Q187	B-4	*Q629	H-2	Q2003	K-6	TP103	D-1
CN401	F-1	IC501	F-3	L513	H-5	*Q188	B-5	*Q701	N-2	Q2004	K-6	TP105	C-4
CN402	E-7	IC502	G-4	L531	G-5	*Q189	B-5	*Q702	N-3	Q2005	K-6	TP106	B-4
CN503	G-2	IC506	H-2	L532	F-5	*Q190	B-4	*Q703	M-3	Q3001	J-6	TP107	A-4
CN504	C-7	IC605	H-3	L561	G-3	*Q191	B-5	*Q704	M-3	Q3002	J-6	TP108	D-6
CN701	L-6	IC701	P-3	L591	E-3	*Q192	C-4	*Q705	N-3	Q3003	J-6	TP201	B-4
CN702	N-2	IC702	R-3	L594	H-4	*Q193	C-4	*Q706	N-4	Q3004	J-6	TP204	C-1
CN703	K-1	IC703	R-6	L621	H-3	*Q194	C-5	*Q707	M-4	Q3005	J-6	TP205	C-3
CN704	M-7	IC704	M-6	L622	J-3	*Q201	C-7	Q708	N-4			TP401	F-1
CN705	P-1	IC705	N-6	L651	H-3	*Q204	A-4	*Q709	N-4	RV102	C-5	TP402	F-1
CN801	R-3	IC706	N-6	L652	J-2	*Q205	A-4	*Q710	N-4	RV103	C-5	TP403	F-1
		IC707	P-6	L701	R-5	*Q211	C-5	*Q711	N-4	RV106	C-5	TP406	F-4
DL101	B-5	IC708	P-4	L702	P-5	*Q212	C-5	Q712	N-4	RV107	D-5		
DL401	F-4	IC710	K-5	L703	L-3	*Q213	C-6	*Q713	R-6	RV108	C-6	TP407	F-4
		IC711	K-5	L704	L-4	*Q214	D-6	*Q714	R-5	RV109	C-6	TP408	H-6
*D1	G-7	IC712	K-4	L705	L-6	*Q215	C-6	*Q715	R-6	RV111	D-7	TP501	G-4
*D201	B-2	IC713	L-3	L706	L-6	*Q241	C-7	*Q716	R-5	RV112	D-6	TP502	H-1
*D501	F-3	IC714	L-3	L707	K-6	*Q250	B-6	*Q717	R-5	RV113	D-6	TP504	H-2
*D502	H-1	IC715	K-4	L708	K-6	*Q252	C-5	*Q718	R-5	RV201	B-4	TP505	G-3
*D701	P-3	IC716	L-6	L709	K-3	*Q261	B-3	*Q719	P-5	RV202	C-4	TP701	M-3
*D702	N-4	IC717	M-3	L710	K-3	*Q262	C-3	*Q728	K-6	RV203	C-4	TP702	N-4
*D703	L-2	IC718	M-2	L711	P-4	*Q263	C-3	*Q729	J-6	RV204	A-4	TP703	M-6
*D704	L-2	IC719	M-1	L712	L-6	*Q264	C-3	*Q730	K-4	RV205	A-4	TP704	N-6
*D705	N-3	IC720	K-2	L901	M-6	*Q265	C-3	*Q731	K-4	RV206	B-4	TP705	N-6
*D706	L-4	IC721	K-2	L902	M-4	*Q266	C-3	*Q732	K-4	RV402	G-4	TP706	N-6
*D707	P-6	IC722	N-1	L903	P-2	*Q270	B-3	*Q733	K-4	RV403	G-4	TP707	P-6
*D708	K-4	IC901	N-3	L904	P-2	*Q291	B-3	*Q734	L-3	RV406	G-4	TP708	P-6
*D709	K-4	IC902	P-7	L905	R-6	*Q292	A-3	*Q735	M-3	RV407	H-4	TP709	K-6
		IC903	P-7	L906	R-6	*Q293	A-3	*Q736	M-3	RV408	G-5	TP710	J-6
E1	B-1	IC904	L-4	L907	K-5	*Q294	A-3	*Q737	L-3	RV409	H-5	TP711	M-6
E101	B-7	IC905	J-1	L908	J-5	*Q321	A-3	*Q738	L-3	RV412	H-6	TP712	M-4
E201	A-4	IC906	J-3	L909	J-4	*Q322	C-2	*Q739	L-4	RV413	H-6	TP713	M-6
E401	F-7	IC907	N-4	L910	J-4	*Q323	C-2	*Q740	L-5	RV501	G-4	TP714	K-4
E501	G-2	IC908	L-4	L911	L-3	*Q324	C-2	*Q741	L-5	RV502	G-4	TP715	K-1
E701	P-1			L912	L-3	*Q325	D-2	*Q742	L-5	RV503	G-4	TP716	K-1
E702	P-6	L1	E-7	L913	K-5	*Q326	D-2	*Q743	L-5	RV505	E-3	TP717	L-1
E703	J-6	L2	L-7	L914	L-5	*Q327	C-2	*Q746	L-6	RV506	G-4		
E704	M-6	L3	K-7	L915	M-3	*Q328	C-2	*Q747	L-6	RV701	M-2		
E705	L-1	L4	J-7	L916	M-3	*Q329	D-2	*Q748	L-6	RV703	M-5		
		L5	E-7	L917	L-4	*Q351	A-3	*Q749	K-6	RV704	N-5		
FL201	B-2	L101	B-7	L918	J-3	*Q352	C-1	*Q750	K-6	RV705	N-5		
FL202	B-1	L121	A-7	L919	J-3	*Q420	E-7	*Q751	K-7	RV706	R-4		
FL501	F-2	L122	A-6	L920	J-1	*Q423	E-6	*Q752	K-5	RV707	R-4		
FL701	L-4	L123	A-7	L921	J-1	*Q424	E-6	*Q753	K-3	RV708	P-4		
		L124	A-6			*Q425	F-6	*Q754	K-3	RV709	P-5		
IC1	H-1	L125	A-6	*Q20	P-1	*Q426	F-5	*Q755	K-3	RV712	L-3		
IC2	H-1	L181	C-5	*Q120	A-7	*Q464	F-5	*Q756	K-2	RV713	J-4		
IC3	G-1	L182	C-5	*Q121	A-7	*Q466	F-5	*Q757	K-2	RV714	J-4		
IC4	G-1	L183	D-5	*Q122	A-6	*Q467	F-5	*Q758	K-3	RV715	K-4		
IC5	E-4	L184	D-7	*Q123	A-7	*Q468	F-5	*Q759	K-3	RV716	J-4		
IC6	G-2	L211	B-6	*Q124	A-6	*Q501	G-7	*Q760	K-3	RV718	M-2		
IC10	F-7	L212	C-5	*Q125	A-6	*Q513	G-5	*Q761	K-2	RV719	K-5		
IC11	G-7	L213	C-5	*Q126	A-6	*Q514	H-5	*Q762	K-2	RV720	L-5		
IC12	H-7	L231	C-6	*Q127	A-6	*Q515	G-6	*Q763	L-1	RV721	K-2		
IC13	P-1	L232	B-6	*Q128	A-5	*Q541	G-7	*Q764	L-1	RV722	K-2		
IC14	R-1	L261	B-3	*Q151	A-5	*Q550	G-5	*Q765	L-1	RV723	K-2		
IC101	B-6	L291	B-3	*Q161	A-5	*Q552	G-5	*Q766	L-2	RV724	K-2		
IC102	D-6	L292	A-3	*Q162	A-5	*Q561	G-3	*Q767	L-2	RV725	L-1		
IC103	C-6	L293	A-3	*Q163	A-5	*Q563	G-3	*Q768	N-1	RV726	L-1		
IC104	C-7	L294	D-4	*Q164	B-5	*Q570	F-4	*Q770	K-2				
IC105	C-7	L321	D-3	*Q165	B-5	*Q591	F-3	*Q771	K-2	S101	B-1		
IC201	B-3	L322	D-2	*Q167	B-5	*Q592	E-3	*Q772	L-2	S401	G-1		
IC202	B-4	L351	D-3	*Q168	B-5	*Q621	E-3	*Q773	K-2	S701	M-6		

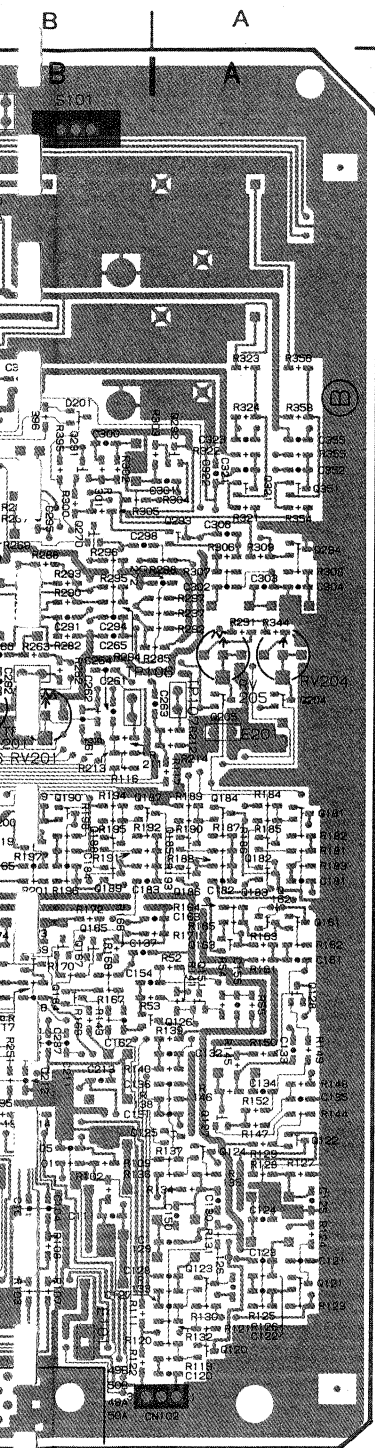
*; B SIDE

VP-33BP ; Y/C PB PROCESS (PB RF EQ, DEMOD, ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER



VP-33BP 1-640-032-13 B SII

VP-33BP(1-640-032-13)

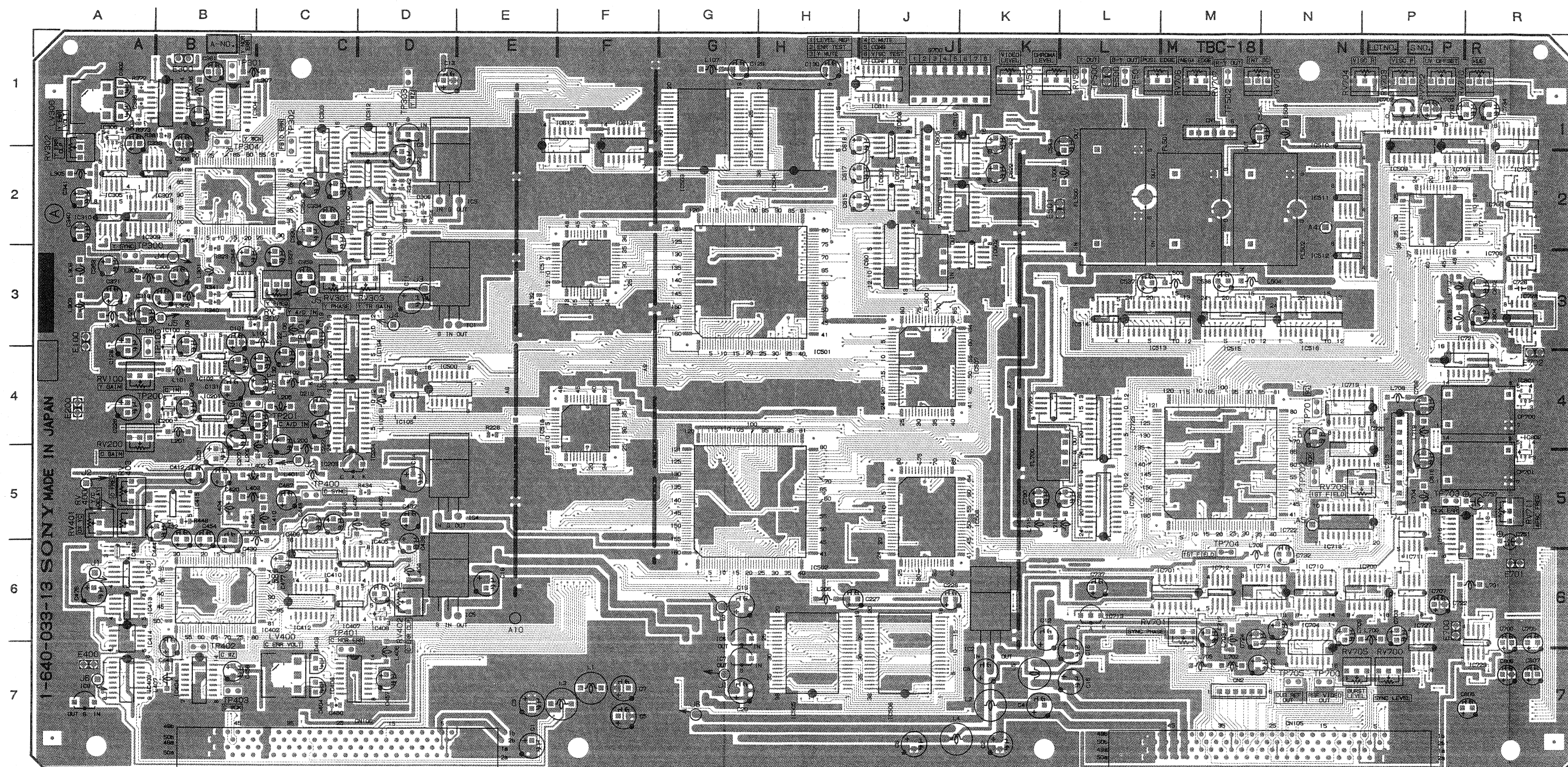


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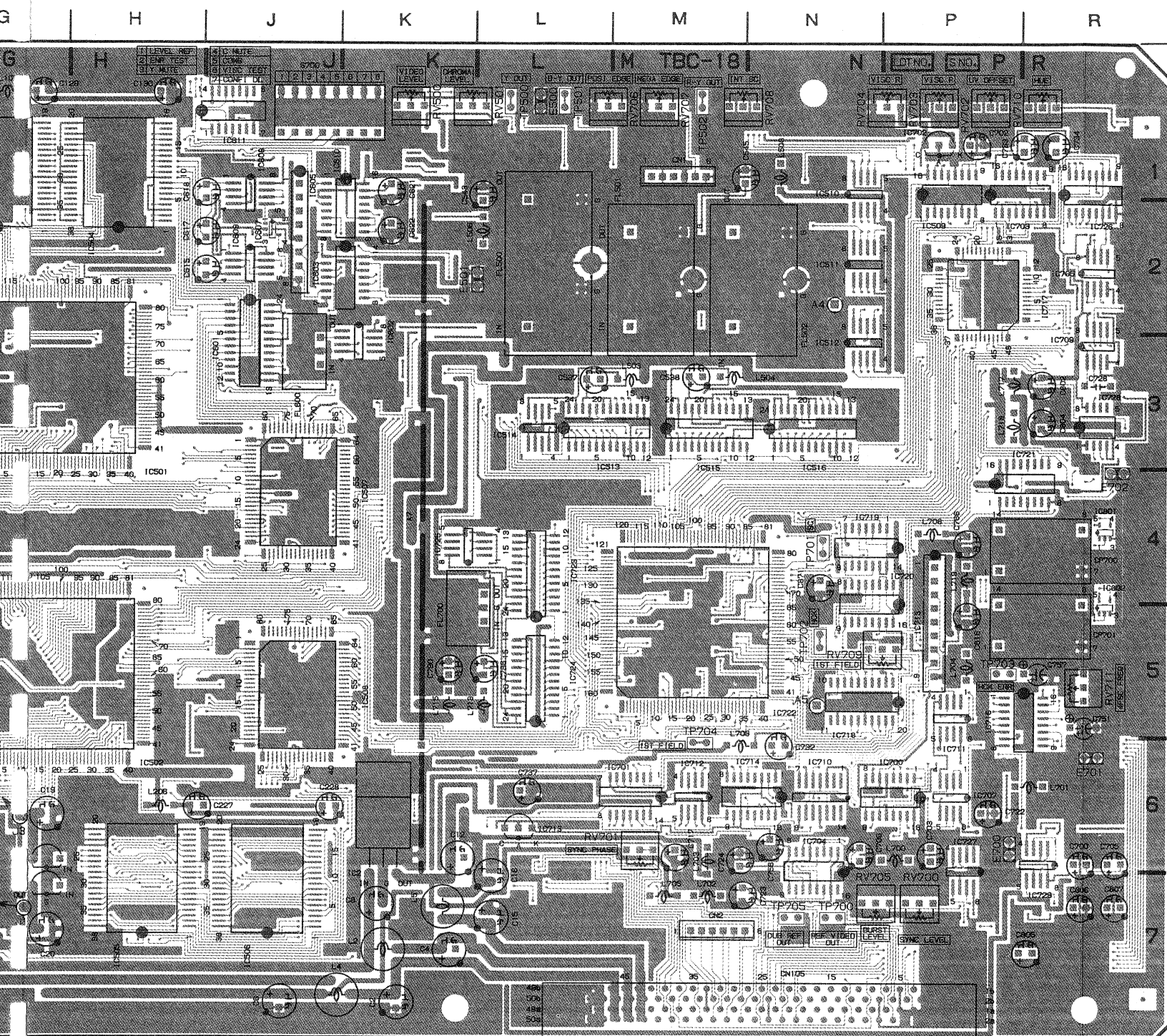
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CN102	A-7	IC204	C-2	L401	F-6	*Q181	A-4	*Q623	H-2	Q1002	N-2	S703	L-2
CN103	N-7	IC205	D-3	L423	F-6	*Q182	A-5	*Q624	H-2	Q1003	N-2		
CN104	C-7	IC206	C-2	L424	F-6	*Q183	A-5	*Q625	H-2	Q1004	N-3	TP1	D-1
CN105	E-1	IC401	F-5	L461	G-6	*Q184	A-4	*Q626	H-2	Q1005	N-3	TP2	F-1
CN203	C-1	IC402	H-5	L462	H-6	*Q185	A-5	*Q627	H-2	Q2001	K-6	TP101	D-1
CN204	C-7	IC403	G-6	L511	F-6	*Q186	A-5	*Q628	H-2	Q2002	K-6	TP102	C-1
CN205	D-1	IC404	G-6	L512	G-5	*Q187	B-4	*Q629	H-2	Q2003	K-6	TP103	D-1
CN401	F-1	IC501	F-3	L513	H-5	*Q188	B-5	*Q701	N-2	Q2004	K-6	TP105	C-4
CN402	E-7	IC502	G-4	L531	G-5	*Q189	B-5	*Q702	N-3	Q2005	K-6	TP106	B-4
CN503	G-2	IC506	H-2	L532	F-5	*Q190	B-4	*Q703	M-3	Q3001	J-6	TP107	A-4
CN504	C-7	IC605	H-3	L561	G-3	*Q191	B-5	*Q704	M-3	Q3002	J-6	TP108	D-6
CN701	L-6	IC701	P-3	L591	E-3	*Q192	C-4	*Q705	N-3	Q3003	J-6	TP201	B-4
CN702	N-2	IC702	R-3	L594	H-4	*Q193	C-4	*Q706	N-4	Q3004	J-6	TP204	C-1
CN703	K-1	IC703	R-6	L621	H-3	*Q194	C-5	*Q707	M-4	Q3005	J-6	TP205	C-3
CN704	M-7	IC704	M-6	L622	J-3	*Q201	C-7	*Q708	N-4			TP401	F-1
CN705	P-1	IC705	N-6	L651	H-3	*Q204	A-4	*Q709	N-4	RV102	C-5	TP402	F-1
CN801	R-3	IC706	N-6	L652	J-2	*Q205	A-4	*Q710	N-4	RV103	C-5	TP403	F-1
		IC707	P-6	L701	R-5	*Q211	C-5	*Q711	N-4	RV106	C-5	TP406	F-4
DL101	B-5	IC708	P-4	L702	P-5	*Q212	C-5	*Q712	N-4	RV107	D-5		
DL401	F-4	IC710	K-5	L703	L-3	*Q213	C-6	*Q713	R-6	RV108	C-6	TP407	F-4
		IC711	K-5	L704	L-4	*Q214	D-6	*Q714	R-5	RV109	C-6	TP408	H-6
*D1	G-7	IC712	K-4	L705	L-6	*Q215	C-6	*Q715	R-6	RV111	D-7	TP501	G-4
*D201	B-2	IC713	L-3	L706	L-6	*Q241	C-7	*Q716	R-5	RV112	D-6	TP502	H-1
*D501	F-3	IC714	L-3	L707	K-6	*Q250	B-6	*Q717	R-5	RV113	D-6	TP504	H-2
*D502	H-1	IC715	K-4	L708	K-6	*Q252	C-5	*Q718	R-5	RV201	B-4	TP505	G-3
*D701	P-3	IC716	L-6	L709	K-3	*Q261	B-3	*Q719	P-5	RV202	C-4	TP701	M-3
*D702	N-4	IC717	M-3	L710	K-3	*Q262	C-3	*Q728	K-6	RV203	C-4	TP702	N-4
*D703	L-2	IC718	M-2	L711	P-4	*Q263	C-3	*Q729	J-6	RV204	A-4	TP703	M-6
*D704	L-2	IC719	M-1	L712	L-6	*Q264	C-3	*Q730	K-4	RV205	A-4	TP704	N-6
*D705	N-3	IC720	K-2	L901	M-6	*Q265	C-3	*Q731	K-4	RV206	B-4	TP705	N-6
*D706	L-4	IC721	K-2	L902	M-4	*Q266	C-3	*Q732	K-4	RV402	G-4	TP706	N-6
*D707	P-6	IC722	N-1	L903	P-2	*Q270	B-3	*Q733	K-4	RV403	G-4	TP707	P-6
*D708	K-4	IC901	N-3	L904	P-2	*Q291	B-3	*Q734	L-3	RV406	G-4	TP708	P-6
*D709	K-4	IC902	P-7	L905	R-6	*Q292	A-3	*Q735	M-3	RV407	H-4	TP709	K-6
		IC903	P-7	L906	R-6	*Q293	A-3	*Q736	M-3	RV408	G-5	TP710	J-6
E1	B-1	IC904	L-4	L907	K-5	*Q294	A-3	*Q737	L-3	RV409	H-5	TP711	M-6
E101	B-7	IC905	J-1	L908	J-5	*Q321	A-3	*Q738	L-3	RV412	H-6	TP712	M-4
E201	A-4	IC906	J-3	L909	J-4	*Q322	C-2	*Q739	L-4	RV413	H-6	TP713	M-6
E401	F-7	IC907	N-4	L910	J-4	*Q323	C-2	*Q740	L-5	RV501	G-4	TP714	K-4
E501	G-2	IC908	L-4	L911	L-3	*Q324	C-2	*Q741	L-5	RV502	G-4	TP715	K-1
E701	P-1			L912	L-3	*Q325	D-2	*Q742	L-5	RV503	G-4	TP716	K-1
E702	P-6	L1	E-7	L913	K-5	*Q326	D-2	*Q743	L-5	RV505	E-3	TP717	L-1
E703	J-6	L2	L-7	L914	L-5	*Q327	C-2	*Q746	L-6	RV506	G-4		
E704	M-6	L3	K-7	L915	M-3	*Q328	C-2	*Q747	L-6	RV701	M-2		
E705	L-1	L4	J-7	L916	M-3	*Q329	D-2	*Q748	L-6	RV703	M-5		
		L5	E-7	L917	L-4	*Q351	A-3	*Q749	K-6	RV704	N-5		
FL201	B-2	L101	B-7	L918	J-3	*Q352	C-1	*Q750	K-6	RV705	N-5		
FL202	B-1	L121	A-7	L919	J-3	*Q420	E-7	*Q751	K-7	RV706	R-4		
FL501	F-2	L122	A-6	L920	J-1	*Q423	E-6	*Q752	K-5	RV707	R-4		
FL701	L-4	L123	A-7	L921	J-1	*Q424	E-6	*Q753	K-3	RV708	P-4		
		L124	A-6			*Q425	F-6	*Q754	K-3	RV709	P-5		
IC1	H-1	L125	A-6	*Q20	P-1	*Q426	F-5	*Q755	K-3	RV712	L-3		
IC2	H-1	L181	C-5	*Q120	A-7	*Q464	F-5	*Q756	K-2	RV713	J-4		
IC3	G-1	L182	C-5	*Q121	A-7	*Q466	F-5	*Q757	K-2	RV714	J-4		
IC4	G-1	L183	D-5	*Q122	A-6	*Q467	F-5	*Q758	K-3	RV715	K-4		
IC5	E-4	L184	D-7	*Q123	A-7	*Q468	F-5	*Q759	K-3	RV716	J-4		
IC6	G-2	L211	B-6	*Q124	A-6	*Q501	G-7	*Q760	K-3	RV718	M-2		
IC10	F-7	L212	C-5	*Q125	A-6	*Q513	G-5	*Q761	K-2	RV719	K-5		
IC11	G-7	L213	C-5	*Q126	A-6	*Q514	H-5	*Q762	K-2	RV720	L-5		
IC12	H-7	L231	C-6	*Q127	A-6	*Q515	G-6	*Q763	L-1	RV721	K-2		
IC13	P-1	L232	B-6	*Q128	A-5	*Q541	G-7	*Q764	L-1	RV722	K-2		
IC14	R-1	L261	B-3	*Q151	A-5	*Q550	G-5	*Q765	L-1	RV723	K-2		
IC101	B-6	L291	B-3	*Q161	A-5	*Q552	G-5	*Q766	L-2	RV724	K-2		
IC102	D-6	L292	A-3	*Q162	A-5	*Q561	G-3	*Q767	L-2	RV725	L-1		
IC103	C-6	L293	A-3	*Q163	A-5	*Q563	G-3	*Q768	N-1	RV726	L-1		
IC104	C-7	L294	D-4	*Q164	B-5	*Q570	F-4	*Q770	K-2				
IC105	C-7	L321	D-3	*Q165	B-5	*Q591	F-3	*Q771	K-2	S101	B-1		
IC201	B-3	L322	D-2	*Q167	B-5	*Q592	E-3	*Q772	L-2	S401	G-1		
IC202	B-4	L351	D-3	*Q168	B-5	*Q621	E-3	*Q773	K-2	S701	M-6		

*: B SIDE

TBC-18P ; TIME BASE CORRECTOR, CTDM (EXPAND)



TBC-18P 1-640-033-13 A SIDE



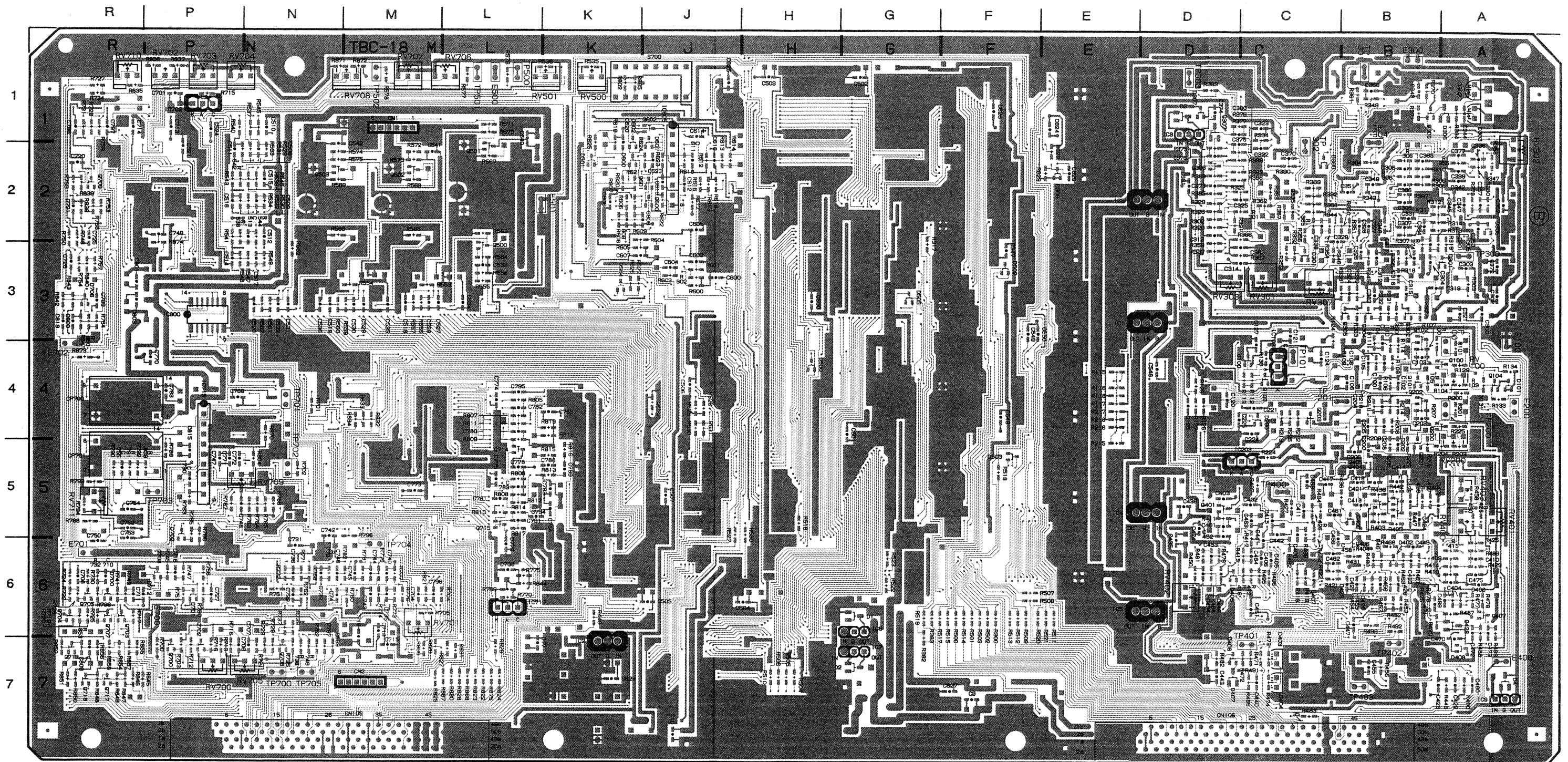
TBC-18P 1-640-033-13 A SIDE

TBC-18P(1-640-033-13)

CN1	M-1	IC103	C-4	IC704	N-6	L508	N-1	RV403	A-5
CN2	M-7	IC104	D-4	IC705	R-2	L700	P-6	RV500	K-1
CN105	N-7	IC105	D-4	IC707	P-6	L701	R-6	RV501	L-1
CN106	D-7	IC200	B-4	IC709	R-3	L702	M-7	RV700	P-7
		IC201	B-4	IC710	N-6	L703	M-6	RV701	M-6
CP700	R-4	IC203	C-5	IC711	P-5	L704	P-5	RV702	P-1
CP701	R-5	IC204	D-5	IC712	M-6	L705	M-7	RV703	P-1
		IC300	D-2	IC713	L-6	L706	M-6	RV704	P-1
*D1	G-6	IC301	B-2	IC714	N-6	L708	P-4	RV705	N-7
*D2	G-7	IC302	D-2	IC715	P-4	L713	L-5	RV706	L-1
*D3	D-1	IC303	C-1	IC716	P-5	L715	K-5	RV707	M-1
*D4	A-7	IC304	B-1	IC717	P-2	L717	P-3	RV708	M-1
*D100	D-4	IC305	A-2	IC718	P-5	L718	P-3	RV709	P-5
*D101	A-4	IC306	A-1	IC719	P-4	L719	P-4	RV710	R-1
*D200	C-4	IC307	A-2	IC720	P-4			RV711	R-5
*D300	C-2	IC308	B-1	IC721	P-4	*Q100	A-4		
*D301	C-3	IC309	A-2	IC722	M-5	*Q101	B-4	S700	J-1
D302	A-1	IC310	A-2	IC723	L-5	*Q102	B-3		
D303	A-1	IC311	D-2	IC724	L-5	*Q103	C-4	TP100	A-4
*D305	A-2	IC312	C-1	IC725	L-4	*Q104	A-4	TP101	C-4
*D306	A-1	IC313	B-3	IC726	R-2	*Q200	A-4	TP200	A-4
*D307	D-1	IC401	A-6	IC727	P-6	*Q201	B-5	TP201	B-4
D309	C-2	IC402	B-6	IC728	R-3	*Q202	B-4	TP300	A-3
*D402	B-6	IC403	A-7	IC729	R-6	*Q203	C-4	TP301	B-1
D403	C-7	IC404	B-7	*IC800	P-3	*Q301	A-3	TP302	C-2
D404	C-7	IC405	D-6	IC801	R-4	*Q302	B-3	TP303	D-1
*D406	D-6	IC406	D-6	IC802	R-5	*Q304	B-3	TP304	B-1
*D407	D-7	IC407	C-6			*Q305	B-3	TP400	C-5
*D408	A-7	IC408	C-7	LV300	A-1	*Q306	D-2	TP401	C-7
*D500	H-4	IC409	C-6	LV400	C-7	*Q307	D-1	TP402	B-7
*D501	K-2	IC410	C-6			*Q308	B-1	TP403	B-7
*D502	F-3	IC411	A-6	L1	F-7	*Q401	D-5	TP500	L-1
*D503	F-5	IC412	C-6	L2	K-7	*Q402	B-5	TP501	L-1
*D504	K-3	IC413	A-6	L3	F-7	*Q404	B-5	TP502	M-1
*D506	E-2	IC414	A-6	L4	K-7	*Q405	B-6	TP700	N-7
*D600	K-2	IC415	B-5	L5	K-7	*Q406	B-5	TP701	N-4
*D601	J-1	IC500	D-4	L100	C-3	*Q407	A-6	TP702	N-5
*D602	K-2	IC501	G-3	L101	B-4	*Q408	D-7	TP703	P-5
*D700	R-6	IC502	G-5	L102	C-4	*Q428	A-6	TP704	M-6
*D701	P-6	IC503	G-2	L105	D-4	*Q500	L-3	TP705	N-7
*D702	P-5	IC504	H-2	L106	C-3	*Q501	L-2		
*D706	R-3	IC505	H-7	L107	G-1	*Q502	M-2		
		IC506	J-7	L200	C-5	*Q503	N-2		
E100	A-3	IC507	J-4	L201	B-4	*Q600	J-2		
E200	A-4	IC508	J-5	L202	C-5	*Q601	J-2		
E300	B-1	IC509	P-2	L205	C-4	*Q602	J-1		
E400	A-7	IC510	N-2	L206	H-6	*Q700	P-7		
E500	L-1	IC511	N-2	L300	A-3	*Q702	P-7		
E501	L-2	IC512	N-3	L301	B-3	*Q703	R-6		
E700	P-6	IC513	L-3	L302	B-3	*Q704	R-6		
E701	R-6	IC514	L-3	L303	A-3	*Q705	R-6		
E702	R-4	IC515	L-3	L304	A-3	*Q706	N-7		
		IC516	N-3	L305	A-2	*Q707	R-6		
FL500	L-2	IC517	F-3	L306	B-1	*Q708	P-6		
FL501	M-2	IC518	F-4	L307	B-1	*Q709	R-2		
FL502	N-2	IC601	J-2	L308	A-3	*Q714	L-5		
FL600	J-3	IC602	K-3	L400	D-5	*Q715	L-5		
FL700	L-5	IC603	J-2	L401	C-5	*Q717	R-7		
		IC605	J-1	L402	B-5	*Q718	R-7		
IC1	D-3	IC607	J-2	L403	B-5	*Q719	R-7		
IC2	K-7	IC608	J-1	L404	B-5				
IC3	D-2	IC609	J-2	L405	D-5	RV100	A-4		
IC4	D-5	IC610	J-1	L406	D-7	RV200	A-4		
IC5	D-6	IC611	J-1	L407	B-7	RV301	C-3		
IC6	G-6	IC612	E-2	L408	D-6	RV302	A-2		
IC7	G-7	IC613	F-2	L409	C-5	RV303	D-3		
IC8	D-1	IC700	P-6	L410	C-5	RV307	C-3		
IC9	A-7	IC701	M-6	L503	M-3	RV400	A-5		
IC100	B-4	IC702	P-1	L504	M-3	RV401	B-3		
IC102	B-4	IC703	P-2	L506	L-2	RV402	D-6		

*: B SIDE

TBC-18P ; TIME BASE CORRECTOR, CTDM (EXPAND)



TBC-18P 1-640-033-13 B SIDE



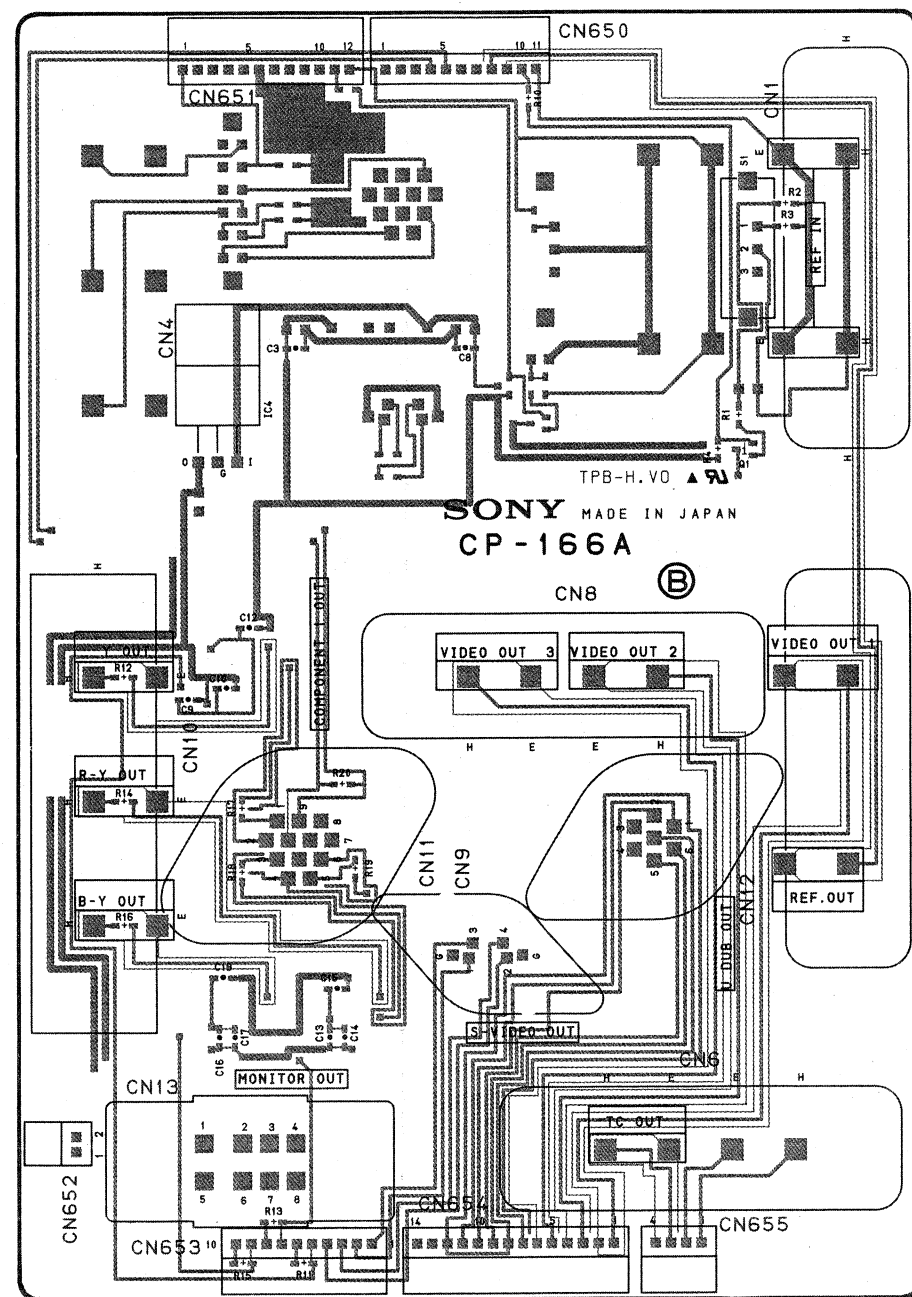
TBC-18P 1-640-033-13 B SIDE

TBC-18P(1-640-033-13)

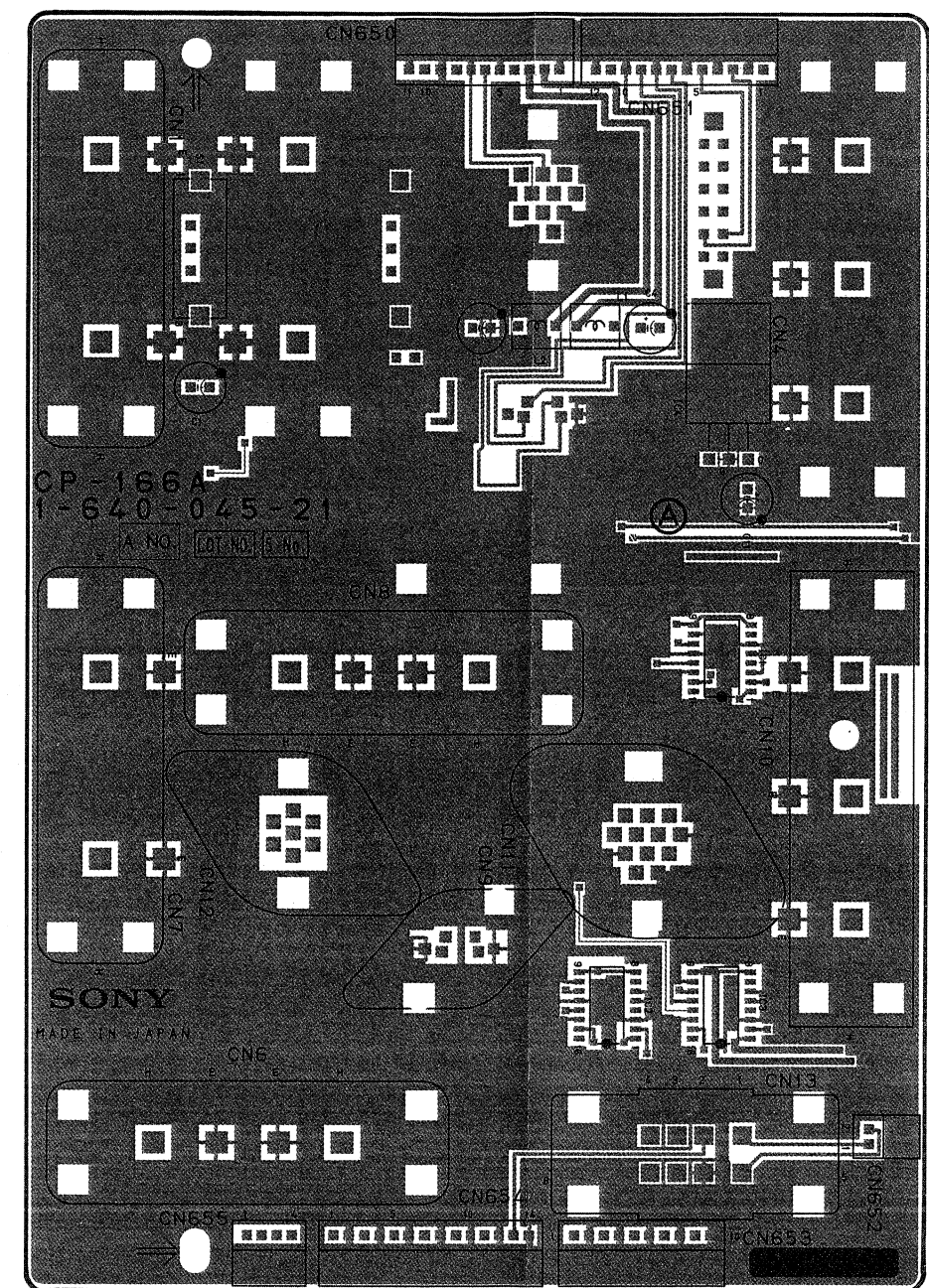
CN1	M-1	IC103	C-4	IC704	N-6	L508	N-1	RV403	A-5
CN2	M-7	IC104	D-4	IC705	R-2	L700	P-6	RV500	K-1
CN105	N-7	IC105	D-4	IC707	P-6	L701	R-6	RV501	L-1
CN106	D-7	IC200	B-4	IC709	R-3	L702	M-7	RV700	P-7
		IC201	B-4	IC710	N-6	L703	M-6	RV701	M-6
CP700	R-4	IC203	C-5	IC711	P-5	L704	P-5	RV702	P-1
CP701	R-5	IC204	D-5	IC712	M-6	L705	M-7	RV703	P-1
		IC300	D-2	IC713	L-6	L706	M-6	RV704	P-1
*D1	G-6	IC301	B-2	IC714	N-6	L708	P-4	RV705	N-7
*D2	G-7	IC302	D-2	IC715	P-4	L713	L-5	RV706	L-1
*D3	D-1	IC303	C-1	IC716	P-5	L715	K-5	RV707	M-1
*D4	A-7	IC304	B-1	IC717	P-2	L717	P-3	RV708	M-1
*D100	D-4	IC305	A-2	IC718	P-5	L718	P-3	RV709	P-5
*D101	A-4	IC306	A-1	IC719	P-4	L719	P-4	RV710	R-1
*D200	C-4	IC307	A-2	IC720	P-4			RV711	R-5
*D300	C-2	IC308	B-1	IC721	P-4	*Q100	A-4		
*D301	C-3	IC309	A-2	IC722	M-5	*Q101	B-4	S700	J-1
D302	A-1	IC310	A-2	IC723	L-5	*Q102	B-3		
D303	A-1	IC311	D-2	IC724	L-5	*Q103	C-4	TP100	A-4
*D305	A-2	IC312	C-1	IC725	L-4	*Q104	A-4	TP101	C-4
*D306	A-1	IC313	B-3	IC726	R-2	*Q200	A-4	TP200	A-4
*D307	D-1	IC401	A-6	IC727	P-6	*Q201	B-5	TP201	B-4
D309	C-2	IC402	B-6	IC728	R-3	*Q202	B-4	TP300	A-3
*D402	B-6	IC403	A-7	IC729	R-6	*Q203	C-4	TP301	B-1
D403	C-7	IC404	B-7	*IC800	P-3	*Q301	A-3	TP302	C-2
D404	C-7	IC405	D-6	IC801	R-4	*Q302	B-3	TP303	D-1
*D406	D-6	IC406	D-6	IC802	R-5	*Q304	B-3	TP304	B-1
*D407	D-7	IC407	C-6			*Q305	B-3	TP400	C-5
*D408	A-7	IC408	C-7	LV300	A-1	*Q306	D-2	TP401	C-7
*D500	H-4	IC409	C-6	LV400	C-7	*Q307	D-1	TP402	B-7
*D501	K-2	IC410	C-6			*Q308	B-1	TP403	B-7
*D502	F-3	IC411	A-6	L1	F-7	*Q401	D-5	TP500	L-1
*D503	F-5	IC412	C-6	L2	K-7	*Q402	B-5	TP501	L-1
*D504	K-3	IC413	A-6	L3	F-7	*Q404	B-5	TP502	M-1
*D506	E-2	IC414	A-6	L4	K-7	*Q405	B-6	TP700	N-7
*D600	K-2	IC415	B-5	L5	K-7	*Q406	B-5	TP701	N-4
*D601	J-1	IC500	D-4	L100	C-3	*Q407	A-6	TP702	N-5
*D602	K-2	IC501	G-3	L101	B-4	*Q408	D-7	TP703	P-5
*D700	R-6	IC502	G-5	L102	C-4	*Q428	A-6	TP704	M-6
*D701	P-6	IC503	G-2	L105	D-4	*Q500	L-3	TP705	N-7
*D702	P-5	IC504	H-2	L106	C-3	*Q501	L-2		
*D706	R-3	IC505	H-7	L107	G-1	*Q502	M-2		
		IC506	J-7	L200	C-5	*Q503	N-2		
E100	A-3	IC507	J-4	L201	B-4	*Q600	J-2		
E200	A-4	IC508	J-5	L202	C-5	*Q601	J-2		
E300	B-1	IC509	P-2	L205	C-4	*Q602	J-1		
E400	A-7	IC510	N-2	L206	H-6	*Q700	P-7		
E500	L-1	IC511	N-2	L300	A-3	*Q702	P-7		
E501	L-2	IC512	N-3	L301	B-3	*Q703	R-6		
E700	P-6	IC513	L-3	L302	B-3	*Q704	R-6		
E701	R-6	IC514	L-3	L303	A-3	*Q705	R-6		
E702	R-4	IC515	L-3	L304	A-3	*Q706	N-7		
		IC516	N-3	L305	A-2	*Q707	R-6		
FL500	L-2	IC517	F-3	L306	B-1	*Q708	P-6		
FL501	M-2	IC518	F-4	L307	B-1	*Q709	R-2		
FL502	N-2	IC601	J-2	L308	A-3	*Q714	L-5		
FL600	J-3	IC602	K-3	L400	D-5	*Q715	L-5		
FL700	L-5	IC603	J-2	L401	C-5	*Q717	R-7		
		IC605	J-1	L402	B-5	*Q718	R-7		
IC1	D-3	IC607	J-2	L403	B-5	*Q719	R-7		
IC2	K-7	IC608	J-1	L404	B-5				
IC3	D-2	IC609	J-2	L405	D-5	RV100	A-4		
IC4	D-5	IC610	J-1	L406	D-7	RV200	A-4		
IC5	D-6	IC611	J-1	L407	B-7	RV301	C-3		
IC6	G-6	IC612	E-2	L408	D-6	RV302	A-2		
IC7	G-7	IC613	F-2	L409	C-5	RV303	D-3		
IC8	D-1	IC700	P-6	L410	C-5	RV307	C-3		
IC9	A-7	IC701	M-6	L503	M-3	RV400	A-5		
IC100	B-4	IC702	P-1	L504	M-3	RV401	B-3		
IC102	B-4	IC703	P-2	L506	L-2	RV402	D-6		

*: B SIDE

CP-166A; VIDEO OUTPUT CONNECTOR, COMPONENT OUT DRIVER



CP-166A 1-640-045-21 B SIDE



CP-166A 1-640-045-21 A SIDE

CP-166A(1-640-045-21)

CN1	A-1
CN2	B-2
CN3	C-2
CN4	D-1
CN5	D-1
CN6	A-6
CN7	A-4
CN8	B-3
CN9	B-5
CN10	D-4
CN11	D-4
CN12	B-4
CN13	C-6
CN650	B-1
CN651	C-1
CN652	D-6
CN653	C-6
CN654	B-6
CN655	A-6

IC1	D-3
IC2	C-5
IC3	D-5
IC4	D-2

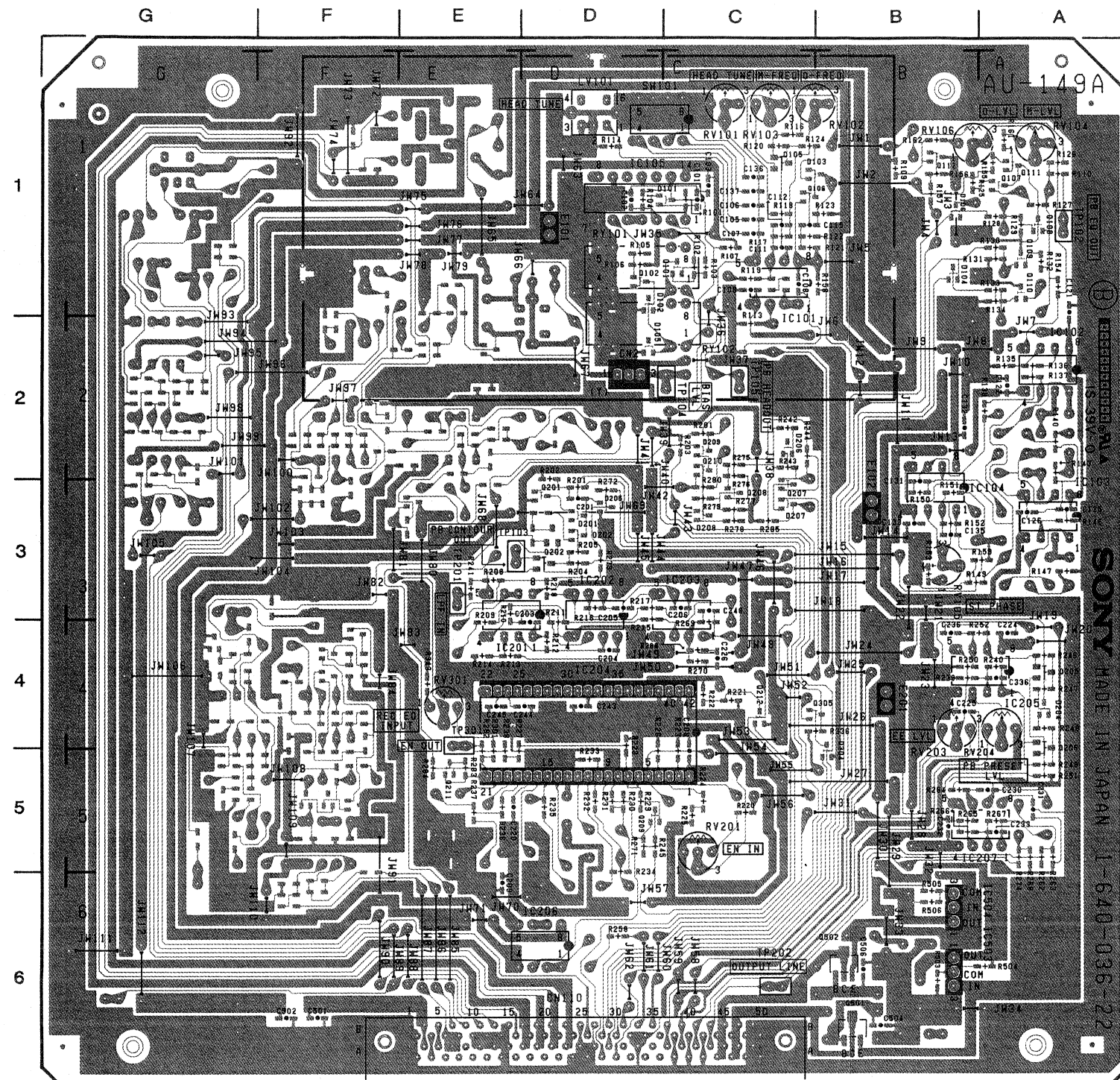
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L2	C-2

*Q1	A-3
*Q2	B-2

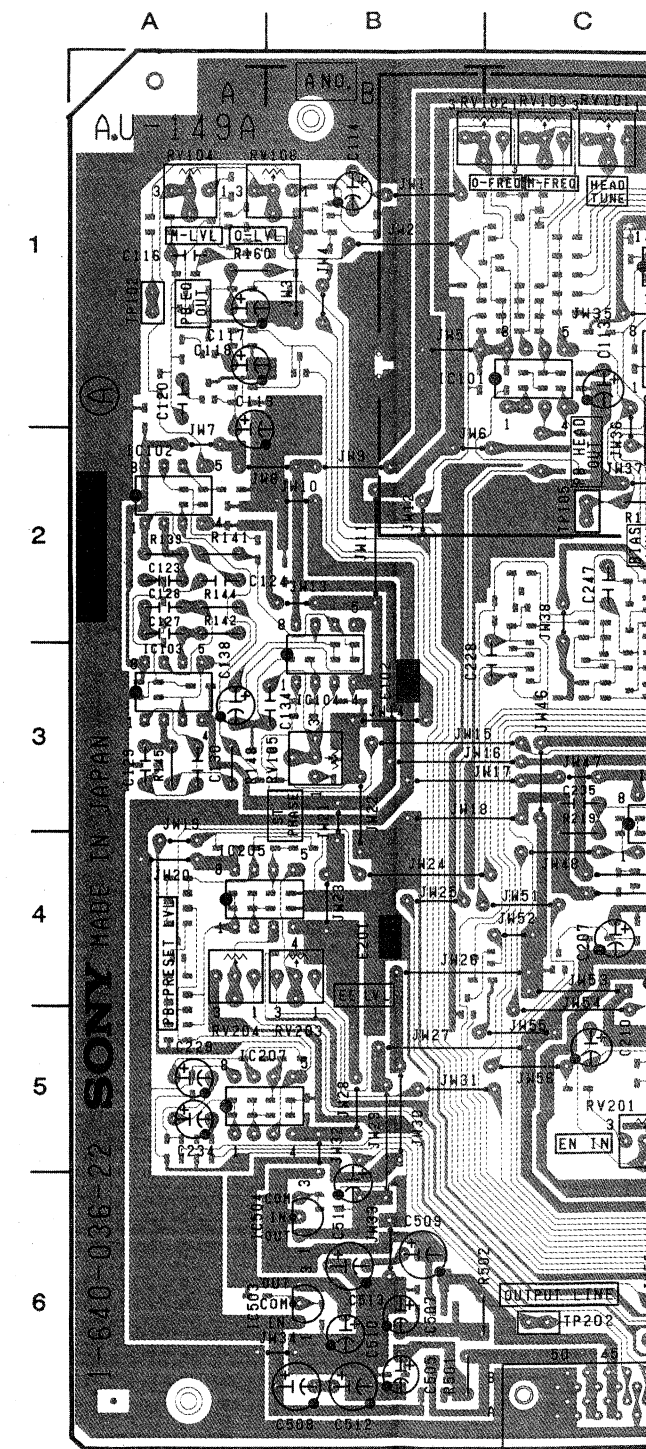
S1	B-1
S2	B-2
S3	D-2

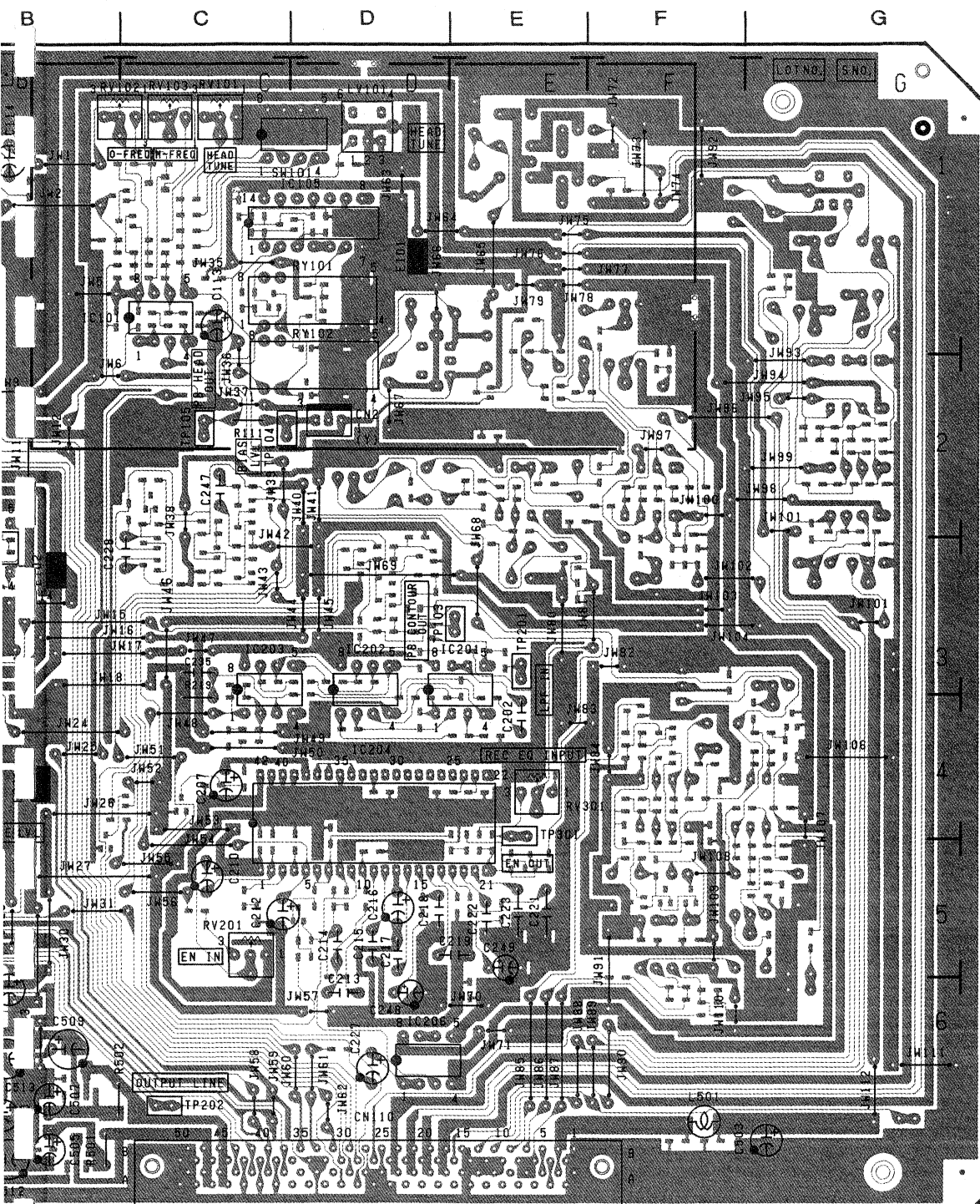
*: B SIDE

U-149AP ; AUDIO CH-2 PB PROCESS, DOLBY SYSTEM



AU-149AP 1-640-036-22 B SIDE





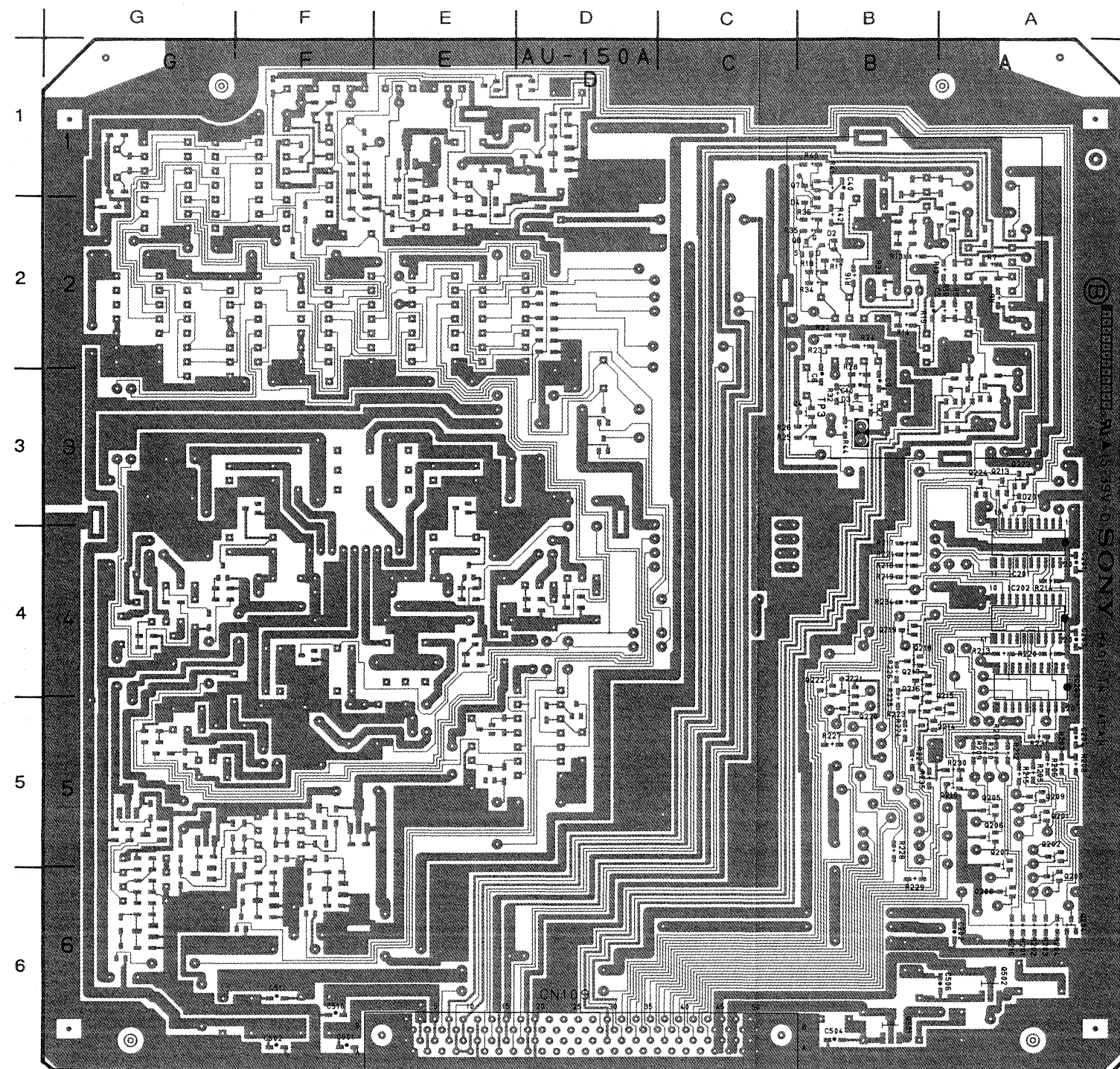
AU-149AP 1-640-036-22 A SIDE

AU-149AP(1-640-036-22)

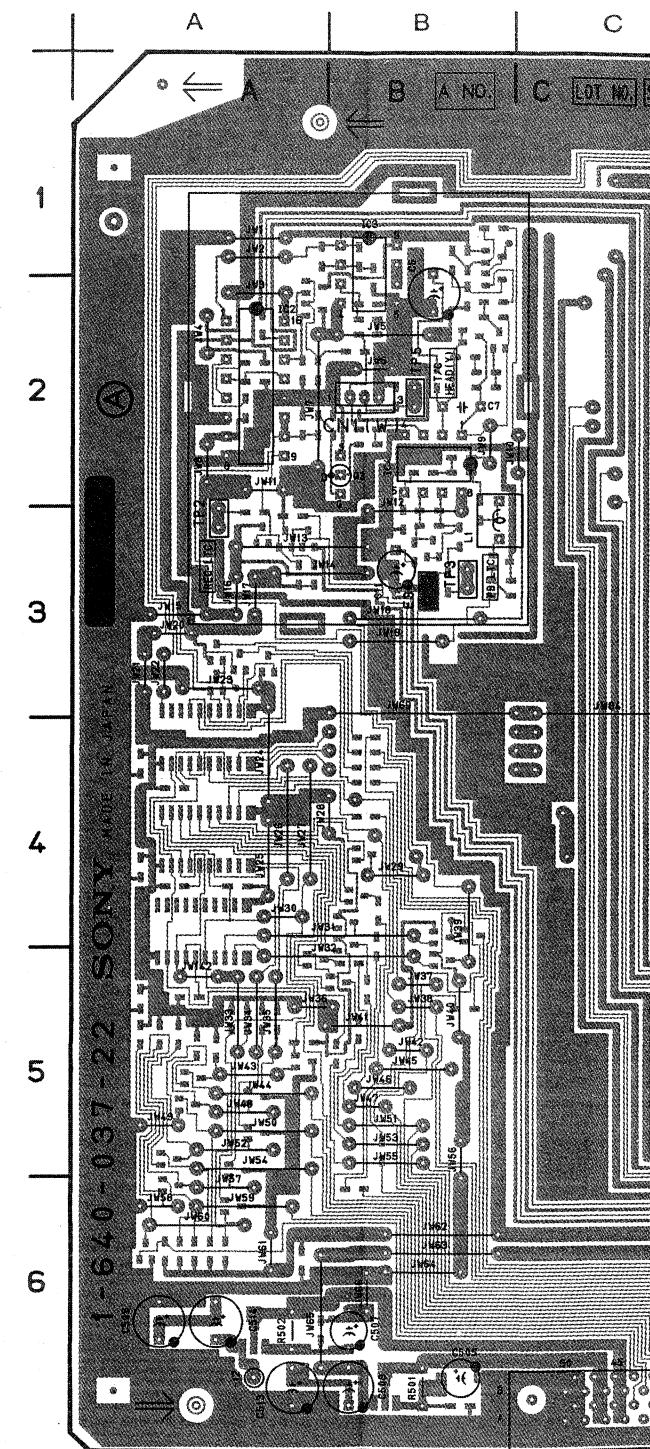
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CN110	D-6	TP103	E-3
		TP104	C-2
		TP105	C-2
		TP201	E-3
		TP202	C-6
		TP301	E-4
*D101	C-1		
*D102	D-1		
*D104	B-1		
*D105	D-2		
*D201	D-3		
*D202	D-3		
*D204	A-4		
*D206	C-2		
*D207	C-3		
*D208	C-3		
*D209	C-2		
E101	D-1		
E102	B-3		
E201	B-4		
IC101	C-1		
IC102	A-2		
IC103	A-3		
IC104	B-3		
IC105	D-1		
IC201	E-3		
IC202	D-3		
IC203	C-3		
IC204	D-4		
IC205	A-4		
IC206	D-6		
IC207	A-5		
IC503	B-6		
IC504	B-6		
LV101	D-1		
L501	F-6		
*Q101	C-1		
*Q102	D-1		
*Q108	A-1		
*Q109	A-1		
*Q110	A-1		
*Q201	D-3		
*Q202	D-3		
*Q205	A-4		
*Q206	A-5		
*Q207	C-3		
*Q208	C-3		
*Q209	D-5		
*Q210	C-2		
*Q211	E-5		
*Q212	C-4		
*Q501	B-6		
*Q502	B-6		
RV101	C-1		
RV102	C-1		
RV105	B-3		
RV106	B-1		
RV201	C-5		
RV203	B-4		
RV204	A-4		
RV301	E-4		
RY101	D-1		
RY102	D-2		
SW101	C-1		

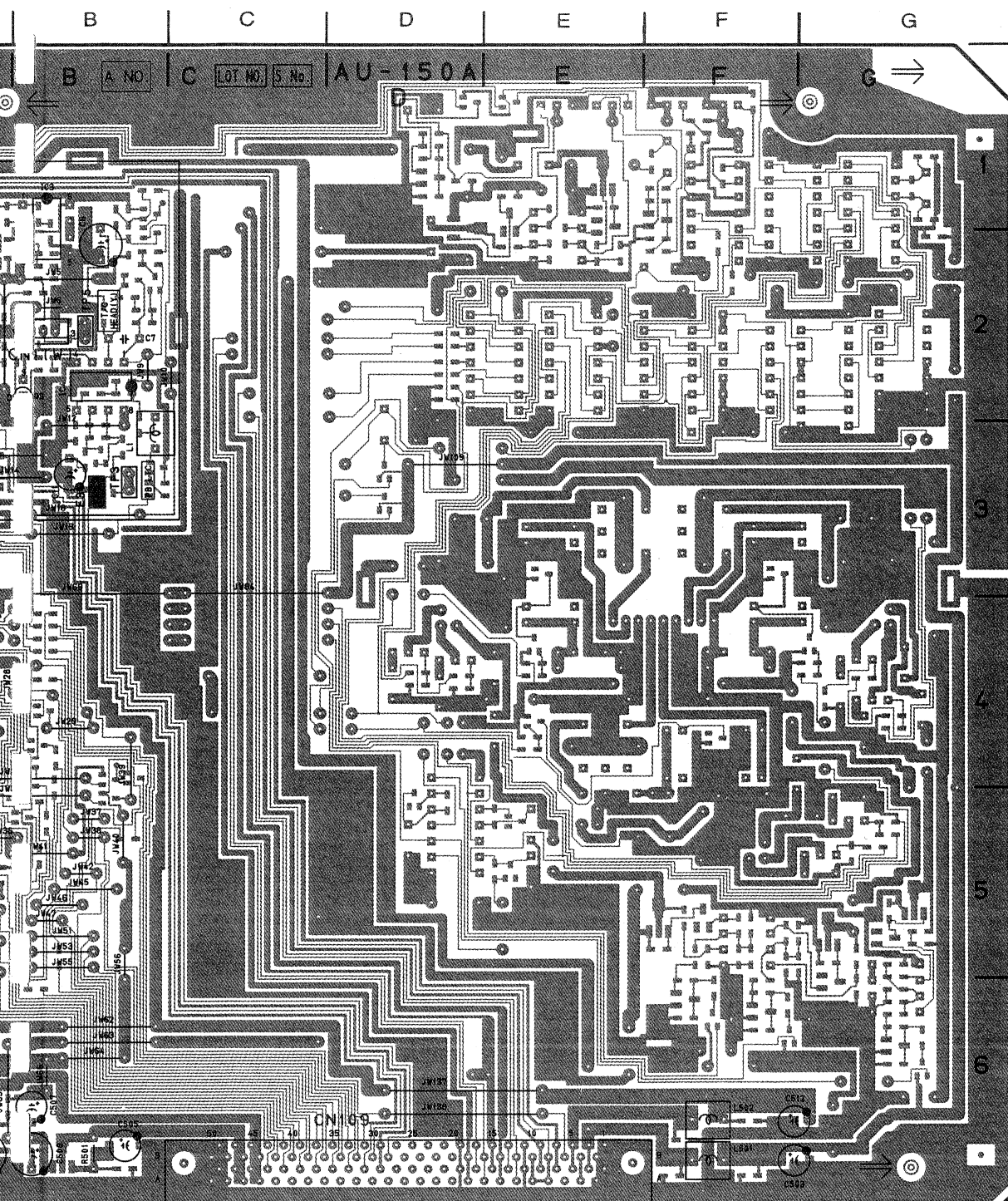
*: B SIDE

AU-150A; AUDIO MODE CONTROL, LTC PB



AU-150A 1-640-037-22 B SIDE





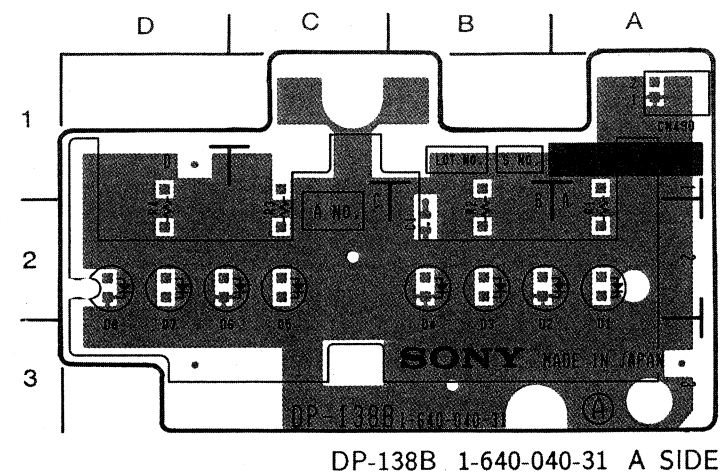
AU-150A 1-640-037-22 A SIDE

AU-150A (1-640-037-22)

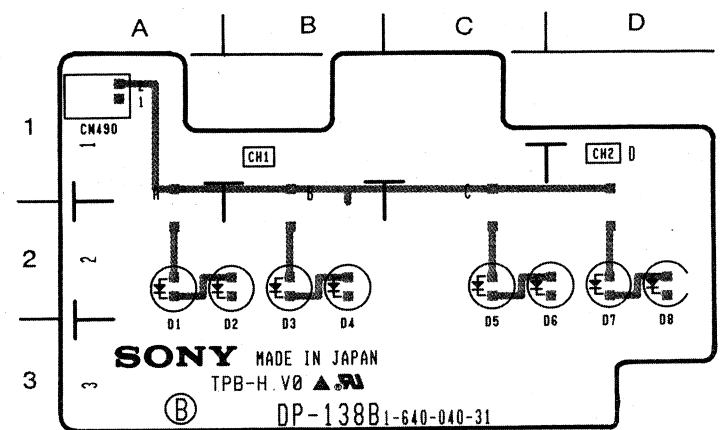
CN1	B-2
CN109	D-7
*D2	B-2
*D3	B-3
*D4	B-2
*D201	A-3
E3	B-3
IC2	A-2
IC3	B-1
IC4	B-2
*IC201	A-5
*IC202	A-5
*IC203	A-5
L1	B-3
L501	F-7
L502	F-7
Q3	B-2
*Q4	B-3
*Q7	B-1
*Q8	B-2
*Q201	A-5
*Q202	A-5
*Q203	A-6
*Q204	A-6
*Q205	A-5
*Q206	A-5
*Q207	A-5
*Q208	A-7
*Q209	A-5
*Q210	A-5
*Q213	A-3
*Q214	B-5
*Q215	A-5
*Q216	B-4
*Q217	B-4
*Q218	B-4
*Q219	B-4
*Q220	B-5
*Q221	B-4
*Q222	B-4
*Q223	A-3
*Q224	A-3
*Q501	B-6
*Q502	A-5
TP2	A-3
TP3	B-3
TP5	B-2

*: B SIDE

DP-138B ; AUDIO LEVEL METER BACK LIGHT
 MA-44B ; AUDIO METER DRIVER, HEADPHONE AMPLIFIER
 VR-116B ; AUDIO PB LEVEL CONTROL, HEADPHONE VOLUME CONTROL



DP-138B 1-640-040-31 A SIDE

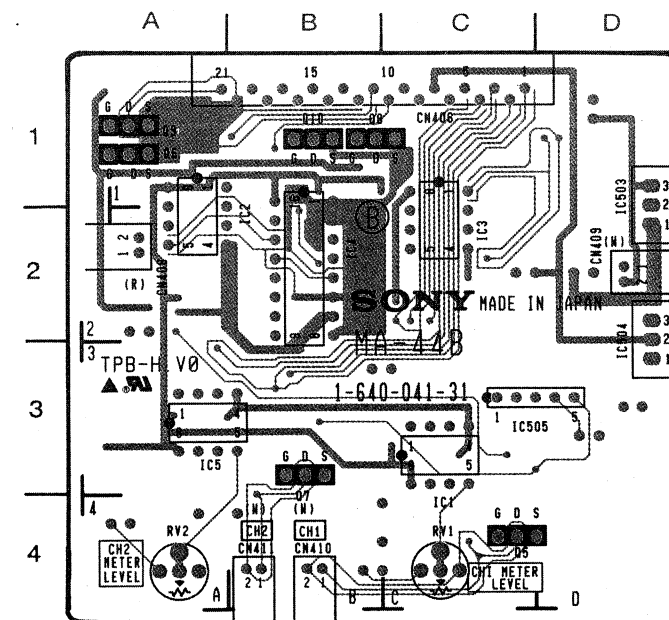


DP-138B 1-640-040-31 B SIDE

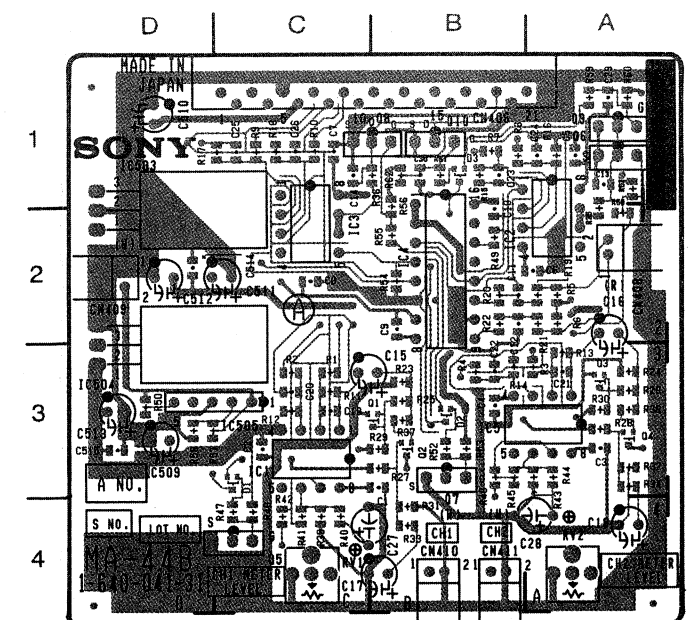
DP-138B(1-640-040-31)

CN490 A-1
 D1 A-2
 D2 B-2
 D3 B-2
 D4 B-2
 D5 C-2
 D6 D-2
 D7 D-2
 D8 D-2

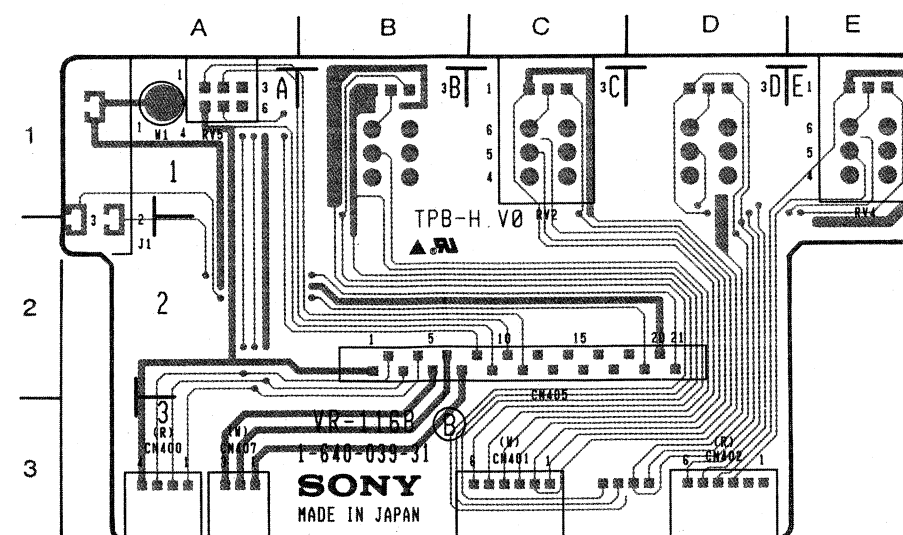
*; B SIDE



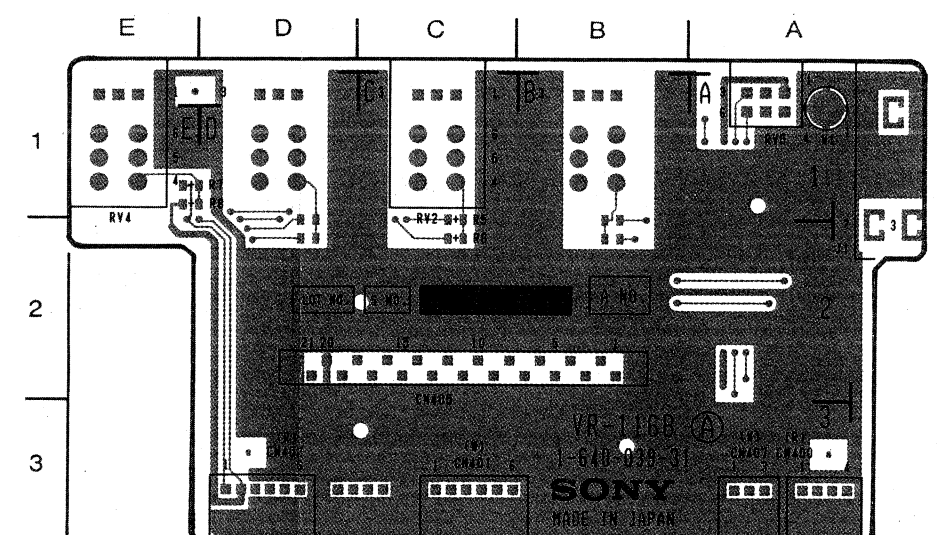
MA-44B 1-640-041-31 B SIDE



MA-44B 1-640-041-31 A SIDE



VR-116B 1-640-039-31 B SIDE



VR-116B 1-640-039-31 A SIDE

MA-44B(1-540-041-31)

CN406	B-1
CN408	A-2
CN409	D-2
CN410	B-4
CN411	B-4

D1	C-3
D2	B-3
D3	B-1

IC1	C-3
IC2	B-2
IC3	C-2
IC4	B-2
IC5	B-3
IC503	D-1
IC504	D-2
IC505	C-3

Q1	B-3
Q2	B-3
Q3	A-3
Q4	A-3
Q5	C-4
Q6	A-1
Q7	B-3
Q8	B-1
Q9	A-1
Q10	B-1

RV1	C-4
RV2	A-4

*; B SIDE

R-116B(1-640-039-31)

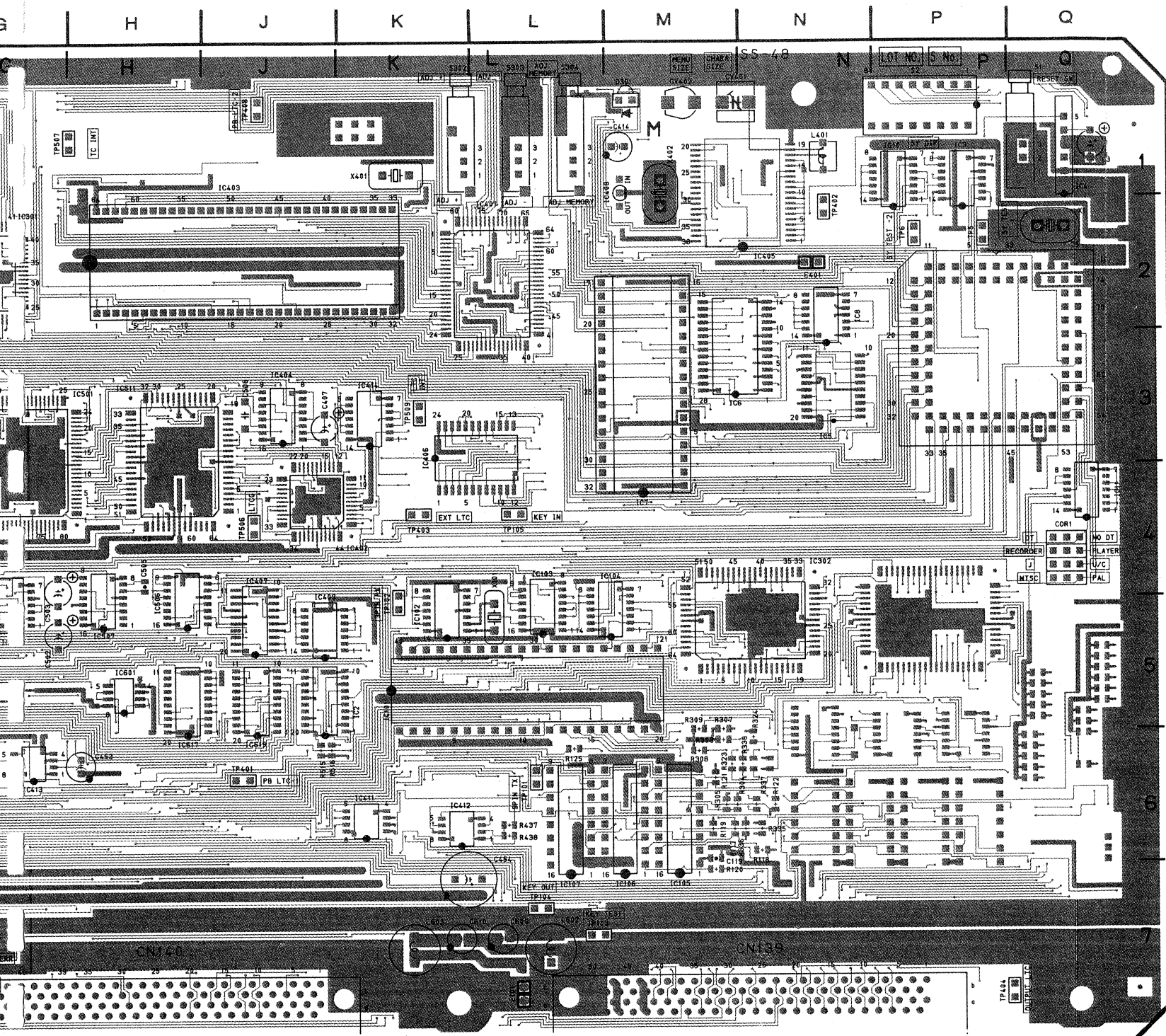
CN400	A-1
CN401	C-3
CN402	D-3
CN405	C-2
CN407	A-2

J1	A-1
----	-----

RV2	C-2
RV4	E-2
RV5	A-1

*; B SIDE

SS-48P 1-640-029-12 A SIDE



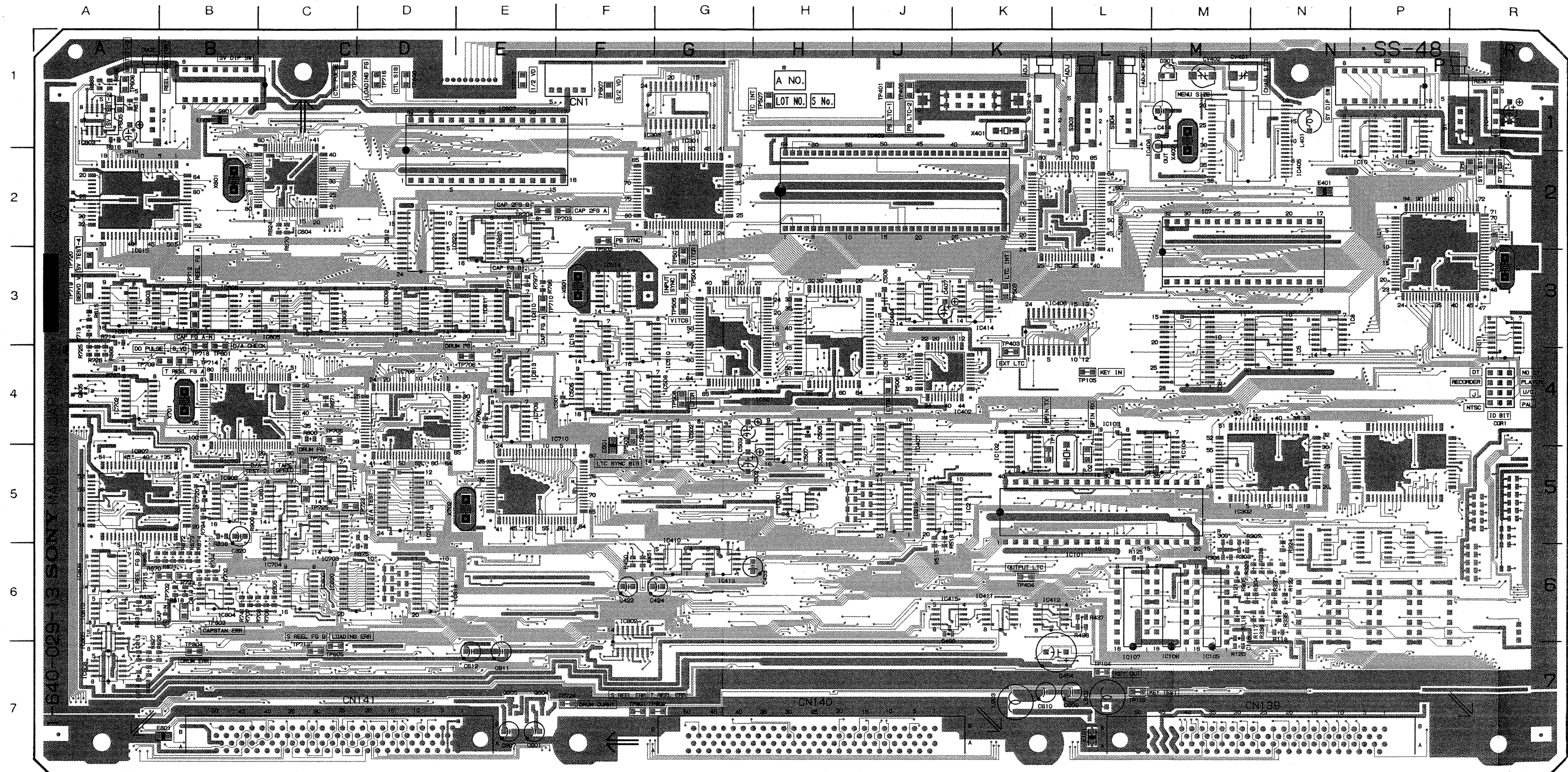
SS-48P 1-640-029-12 A SIDE

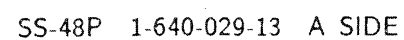
SS-48P (1-640-029-12)

CN1	F-1	IC401	L-2	*Q404	J-7	TP704	E-2
CN139	N-7	IC402	K-4	*Q405	J-6	TP705	C-4
CN140	H-7	IC403	J-2	*Q406	M-1	TP706	D-4
CN141	C-7	IC404	J-3	*Q407	M-1	TP708	C-1
		IC405	N-2	*Q408	M-1	TP709	A-4
COR1	Q-4	IC406	K-3	*Q409	M-1	TP710	E-3
CV401	M-1	IC407	J-4	*Q410	N-2	TP711	E-3
CV402	M-1	IC408	M-2	*Q411	K-6	TP712	B-3
		IC409	J-5	*Q412	G-5	TP713	C-7
		IC410	G-6	*Q601	C-1	TP714	B-4
*D101	F-3	IC411	K-6	*Q602	C-1	TP715	A-6
*D102	F-4	IC412	K-6	*Q603	C-1	TP716	D-1
D301	M-1	IC413	G-6	*Q604	E-7	TP717	E-1
*D401	F-5	IC414	K-3	*Q605	E-7	TP718	B-4
*D402	G-5	IC501	H-3	*Q606	J-7	TP719	A-3
*D403	G-5	IC502	G-5	*Q701	C-4	TP720	A-3
*D404	F-6	IC504	G-5	*Q702	B-4	TP722	C-5
*D405	F-6	IC505	F-4	*Q703	F-6	TP723	C-5
*D406	K-4	IC506	H-5	*Q704	E-6	TP724	F-7
*D601	C-6	IC507	H-5	*Q705	E-6	TP725	C-5
*D602	C-6	IC508	F-4	*Q706	E-6	TP801	F-7
*D603	C-6	IC510	G-4	*Q707	E-6	TP802	G-7
*D604	H-5	IC511	H-3	*Q708	C-4	TP803	A-6
*D605	C-6	IC514	F-3	*Q709	C-4	TP804	B-7
*D606	C-6	IC601	H-5	*Q710	B-4	TP805	D-7
*D607	C-6	IC602	C-6	*Q711	B-4	TP806	D-1
*D608	A-3	IC603	A-1	*Q801	A-5		
*D609	A-3	IC604	C-1	*Q802	A-2	X1	Q-2
*D610	A-1	IC605	B-3	*Q803	A-2	X101	L-4
*D611	C-2	IC606	B-3	Q805	A-4	X401	K-1
*D612	C-2	IC607	D-2			X501	F-3
*D613	C-2	IC608	C-3	S1	Q-1	X601	B-2
*D614	C-2	IC609	D-3	S2	P-1	X701	B-4
*D615	B-2	IC610	E-3	S302	K-1	X702	D-6
*D616	E-2	IC611	D-3	S303	L-1		
D618	D-1	IC612	D-2	S304	L-1		
D619	E-1	IC613	E-4	S601	B-1		
D620	E-1	IC615	B-2	S602	A-1		
*D701	C-5	IC616	A-3				
*D702	D-6	IC617	H-5	TP5	P-2		
*D703	E-6	IC618	D-6	TP6	P-2		
*D801	A-6	IC619	J-5	TP101	L-6		
		IC620	C-6	TP102	K-5		
E101	L-7	IC621	E-3	TP103	L-7		
E401	N-2	IC622	E-2	TP104	L-7		
E601	F-4	IC701	B-4	TP105	L-4		
E602	B-1	IC702	A-4	TP401	J-6		
E801	A-7	IC703	C-6	TP402	N-2		
		IC704	C-6	TP403	K-4		
IC1	Q-2	IC706	D-4	TP404	Q-7		
IC2	K-5	IC707	D-5	TP408	J-1		
IC3	P-1	IC709	E-4	TP501	G-3		
IC4	Q-1	IC710	F-5	TP502	F-2		
IC5	N-3	IC711	C-5	TP503	F-4		
IC6	M-3	IC801	B-5	TP504	G-3		
IC7	M-4	IC802	G-7	TP505	G-3		
IC8	N-2	IC803	A-3	TP506	J-4		
IC10	P-1	IC804	B-6	TP507	G-1		
IC11	Q-4	IC805	A-7	TP508	G-4		
IC15	F-4	IC806	B-5	TP509	K-3		
IC101	K-5	IC807	B-5	TP601	B-4		
IC102	K-5	IC808	A-7	*TP602	B-2		
IC103	L-4	IC809	A-6	TP603	B-2		
IC104	L-4	IC810	A-6	*TP604	B-1		
IC105	M-7	L401	N-1	TP605	A-1		
IC106	M-7	L602	L-7	TP606	A-1		
IC107	L-7	L603	K-7	TP607	F-1		
IC301	G-2			TP701	B-3		
IC302	N-4	*Q401	K-7	TP702	B-6		
IC303	F-1	*Q402	K-7	TP703	F-2		

*: B SIDE

SS-48P 1-640-029-13 A SIDE

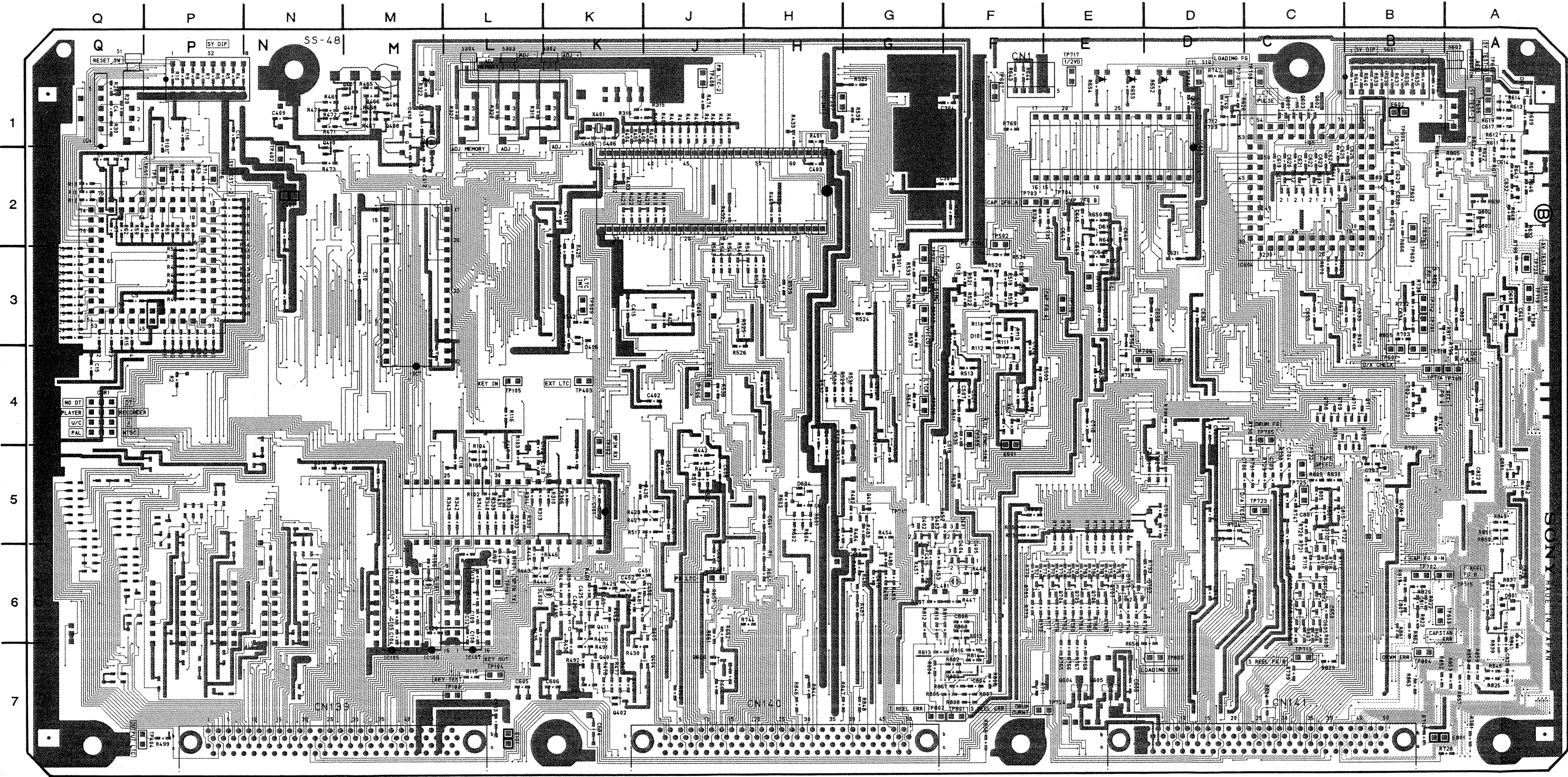




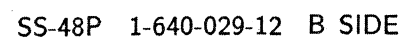
CN1	F-1	IC107	L-6	L401	N-1	TP702	B-6
CN139	N-7	IC301	G-2	L602	L-7	TP703	F-2
CN140	H-7	IC302	N-5	L603	K-7	TP704	E-2
CN141	C-7	IC303	G-1			TP705	C-4
		IC401	L-2	*Q401	K-7	TP706	E-4
COP1	R-4	IC402	J-4	*Q402	K-4	TP708	C-1
COP2	R-4	IC403	J-2	*Q403	J-6	TP709	B-4
COP3	R-4	IC404	J-3	*Q404	K-7	TP710	E-3
COP4	R-4	IC405	M-1	*Q405	K-6	TP711	E-3
COR1	R-4	IC406	L-3	*Q406	M-1	TP712	B-3
		IC407	J-5	*Q407	M-1	TP713	C-7
CV401	M-1	IC408	M-1	*Q408	M-1	TP714	B-4
CV402	M-1	IC410	G-6	*Q409	M-1	TP715	B-6
		IC411	K-6	*Q410	N-1	TP716	D-1
		IC412	K-6	*Q411	K-6	TP717	E-1
*D101	F-3	IC413	G-6	*Q412	G-5	TP718	B-4
*D102	F-4	IC414	K-3	Q604	E-7	TP719	A-3
D301	M-1	IC415	J-6	Q605	E-7	TP720	A-3
*D401	F-5	IC501	G-3	*Q606	J-7	TP722	C-5
*D402	G-5	IC502	G-4	*Q701	D-7	TP723	C-5
*D403	G-5	IC504	G-4	*Q702	D-7	TP724	F-7
*D404	F-6	IC505	F-4	*Q703	F-6	TP725	C-5
*D405	F-6	IC506	H-4	*Q704	F-6	TP801	F-7
*D406	K-3	IC507	H-4	*Q705	E-6	TP802	G-7
*D601	C-6	IC508	F-4	*Q706	E-6	TP803	B-6
*D602	C-6	IC510	F-3	*Q707	E-6	TP804	B-7
*D603	C-6	IC511	H-3	*Q708	L-7	TP805	C-7
*D604	H-5	IC514	F-3	*Q709	M-7	TP806	D-1
*D605	C-6	IC601	H-5	*Q710	L-6		
*D606	C-6	IC602	C-6	*Q711	M-7	X1	R-3
*D607	C-6	IC603	A-1	*Q801	A-5	X101	L-4
*D608	A-3	IC604	C-2	*Q802	A-2	X401	K-1
*D609	A-3	IC605	B-4	*Q803	A-2	X501	F-3
*D610	C-1	IC606	B-3	Q805	A-4	X601	B-2
*D611	C-1	IC607	E-2			X701	B-4
*D612	C-1	IC608	C-3	S1	R-1	X702	E-5
*D613	C-1	IC609	D-3	S2	P-1		
*D614	C-1	IC610	E-3	S302	K-1		
*D615	C-1	IC611	E-3	S303	L-1		
*D616	E-2	IC612	D-2	S304	L-1		
*D701	C-5	IC613	E-4	S601	B-1		
*D702	E-6	IC615	A-2	S602	A-1		
*D703	E-6	IC616	A-3				
*D801	A-6	IC618	D-6	TP5	R-2		
		IC619	J-5	TP6	R-2		
E101	L-7	IC620	D-6	TP101	K-5		
E401	N-2	IC621	E-2	TP102	L-5		
E601	F-5	IC622	E-2	TP103	L-7		
E602	B-1	IC701	B-4	TP104	L-7		
E801	B-7	IC702	A-4	TP105	L-4		
		IC703	C-5	TP401	J-1		
IC1	P-3	IC704	C-6	TP403	K-4		
IC2	J-5	IC706	D-4	TP404	K-6		
IC3	P-1	IC707	D-5	TP408	J-1		
IC4	R-1	IC709	E-4	TP501	G-3		
IC5	N-3	IC710	E-5	TP502	F-2		
IC6	M-4	IC711	C-5	TP503	F-4		
IC7	M-3	IC801	C-5	TP504	G-3		
IC8	N-3	IC802	F-7	TP505	G-3		
IC10	P-1	IC803	B-3	TP506	J-4		
IC11	R-3	IC804	B-6	TP507	H-1		
IC15	F-3	IC805	A-7	TP508	G-4		
IC101	L-5	IC806	B-5	TP509	K-3		
IC102	K-5	IC807	A-5	TP601	B-4		
IC103	L-5	IC808	A-7	TP60			

15-26(b)

SS-48P ; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER, CHARACTER GENERATOR



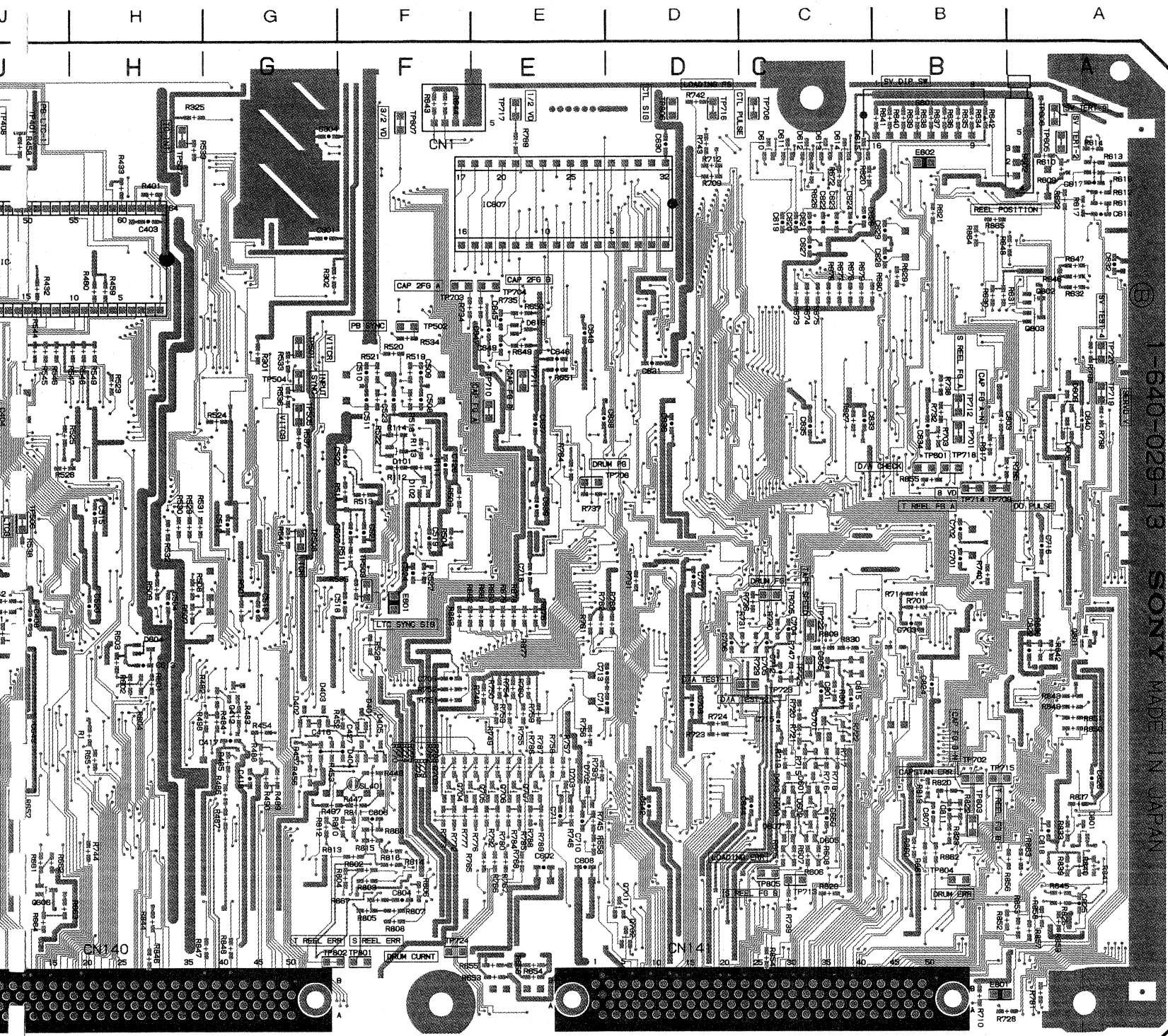
SS-48P 1-640-029-12 B SIDE



* : B SIDE

SS-48P 1-640-029-13 B SIDE





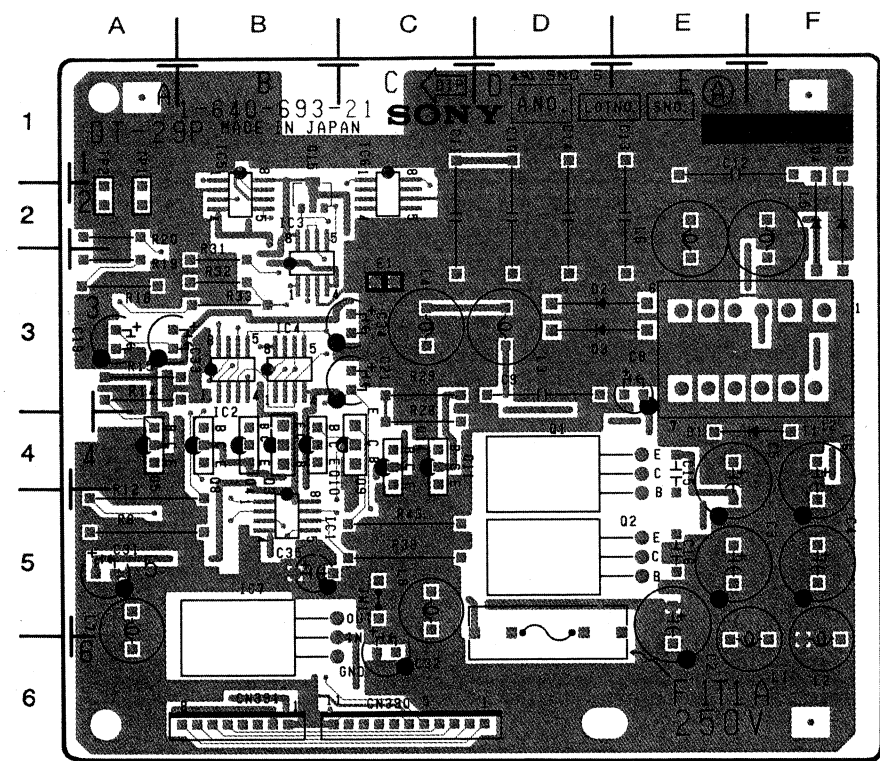
SS-48P 1-640-029-13 B SIDE

SS-48P (1-640-029-13)

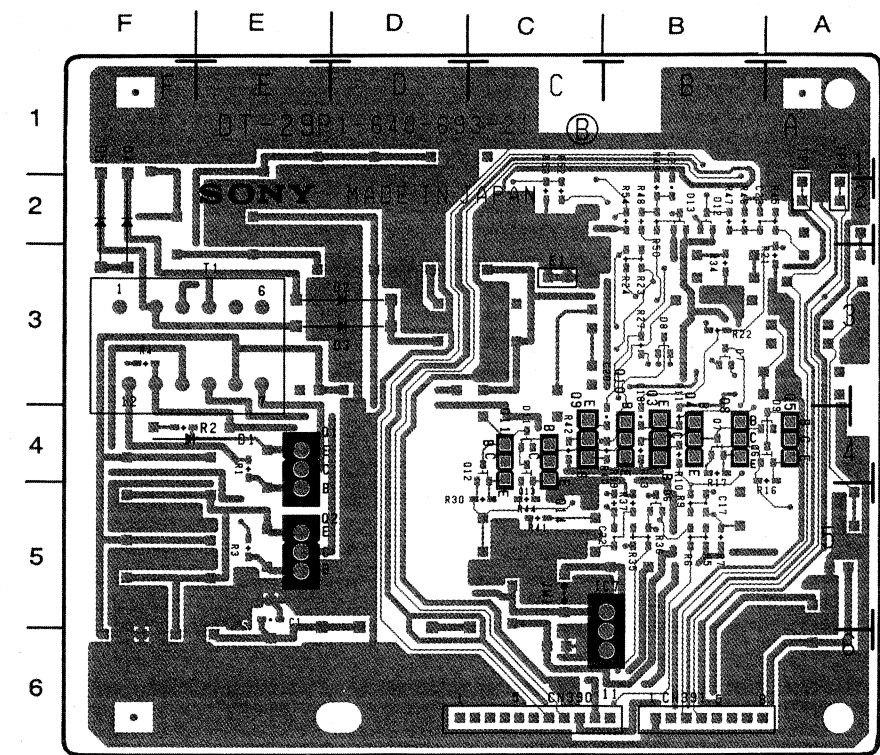
CN1	F-1	IC107	L-6	L401	N-1	TP702	B-6
CN139	N-7	IC301	G-2	L602	L-7	TP703	F-2
CN140	H-7	IC302	N-5	L603	K-7	TP704	E-2
CN141	C-7	IC303	G-1			TP705	C-4
		IC401	L-2	*Q401	K-7	TP706	E-4
COP1	R-4	IC402	J-4	*Q402	K-4	TP708	C-1
COP2	R-4	IC403	J-2	*Q403	J-6	TP709	B-4
COP3	R-4	IC404	J-3	*Q404	K-7	TP710	E-3
COP4	R-4	IC405	M-1	*Q405	K-6	TP711	E-3
COR1	R-4	IC406	L-3	*Q406	M-1	TP712	B-3
		IC407	J-5	*Q407	M-1	TP713	C-7
CV401	M-1	IC408	M-1	*Q408	M-1	TP714	B-4
CV402	M-1	IC410	G-6	*Q409	M-1	TP715	B-6
		IC411	K-6	*Q410	N-1	TP716	D-1
		IC412	K-6	*Q411	K-6	TP717	E-1
*D101	F-3	IC413	G-6	*Q412	G-5	TP718	B-4
*D102	F-4	IC414	K-3	Q604	E-7	TP719	A-3
D301	M-1	IC415	J-6	Q605	E-7	TP720	A-3
*D401	F-5	IC501	G-3	*Q606	J-7	TP722	C-5
*D402	G-5	IC502	G-4	*Q701	D-7	TP723	C-5
*D403	G-5	IC504	G-4	*Q702	D-7	TP724	F-7
*D404	F-6	IC505	F-4	*Q703	F-6	TP725	C-5
*D405	F-6	IC506	H-4	*Q704	F-6	TP801	F-7
*D406	K-3	IC507	H-4	*Q705	E-6	TP802	G-7
*D601	C-6	IC508	F-4	*Q706	E-6	TP803	B-6
*D602	C-6	IC510	F-3	*Q707	E-6	TP804	B-7
*D603	C-6	IC511	H-3	*Q708	L-7	TP805	C-7
*D604	H-5	IC514	F-3	*Q709	M-7	TP806	D-1
*D605	C-6	IC601	H-5	*Q710	L-6		
*D606	C-6	IC602	C-6	*Q711	M-7	X1	R-3
*D607	C-6	IC603	A-1	*Q801	A-5	X101	L-4
*D608	A-3	IC604	C-2	*Q802	A-2	X401	K-1
*D609	A-3	IC605	B-4	*Q803	A-2	X501	F-3
*D610	C-1	IC606	B-3	Q805	A-4	X601	B-2
*D611	C-1	IC607	E-2			X701	B-4
*D612	C-1	IC608	C-3	S1	R-1	X702	E-5
*D613	C-1	IC609	D-3	S2	P-1		
*D614	C-1	IC610	E-3	S302	K-1		
*D615	C-1	IC611	E-3	S303	L-1		
*D616	E-2	IC612	D-2	S304	L-1		
*D701	C-5	IC613	E-4	S601	B-1		
*D702	E-6	IC615	A-2	S602	A-1		
*D703	E-6	IC616	A-3				
*D801	A-6	IC618	D-6	TP5	R-2		
		IC619	J-5	TP6	R-2		
E101	L-7	IC620	D-6	TP101	K-5		
E401	N-2	IC621	E-2	TP102	L-5		
E601	F-5	IC622	E-2	TP103	L-7		
E602	B-1	IC701	B-4	TP104	L-7		
E801	B-7	IC702	A-4	TP105	L-4		
		IC703	C-5	TP401	J-1		
IC1	P-3	IC704	C-6	TP403	K-4		
IC2	J-5	IC706	D-4	TP404	K-6		
IC3	P-1	IC707	D-5	TP408	J-1		
IC4	R-1	IC709	E-4	TP501	G-3		
IC5	N-3	IC710	E-5	TP502	F-2		
IC6	M-4	IC711	C-5	TP503	F-4		
IC7	M-3	IC801	C-5	TP504	G-3		
IC8	N-3	IC802	F-7	TP505	G-3		
IC10	P-1	IC803	B-3	TP506	J-4		
IC11	R-3	IC804	B-6	TP507	H-1		
IC15	F-3	IC805	A-7	TP508	G-4		
IC101	L-5	IC806	B-5	TP509	K-3		
IC102	K-5	IC807	A-5	TP601	B-4		
IC103	L-5	IC808	A-7	TP605	A-1		
IC104	M-5	IC809	A-6	TP606	A-1		
IC105	M-6	IC810	A-6	TP607	F-1		
IC106	M-6			TP701	B-3		

*: B side

DT-29AP ; DYNAMIC TRACKING



DT-29AP 1-640-693-21 A SIDE



DT-29AP 1-640-693-21 B SIDE

DT-29AP(1-640-693-21)

CN390 C-6
CN391 B-6

D1 F-4
D2 D-3
D3 D-3
D4 F-2
D5 F-2
*D6 B-5
*D7 B-3
*D8 B-3
*D9 A-4
*D11 C-4
*D12 B-2
*D13 B-2

E1 C-3

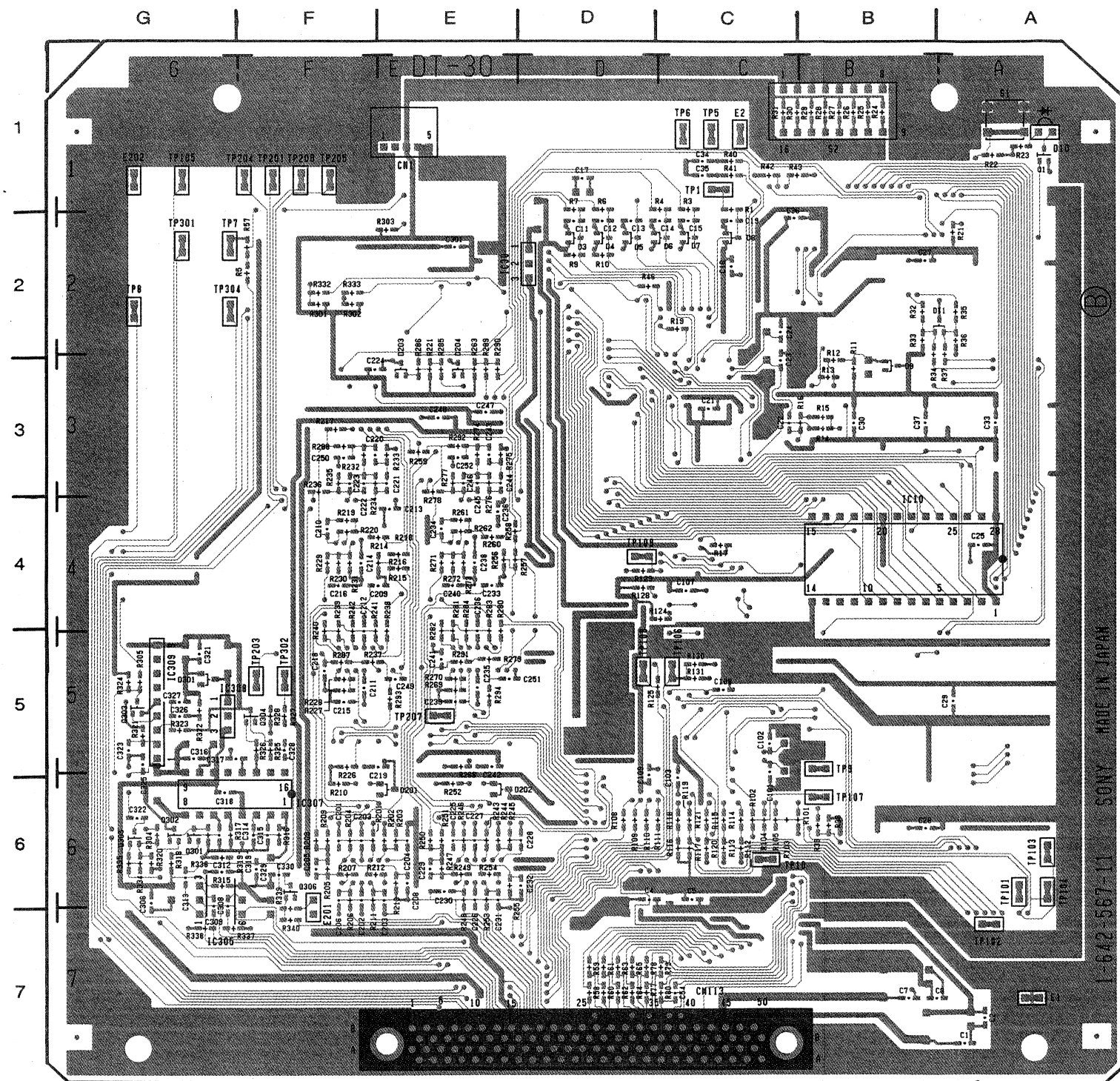
IC1 B-5
IC2 B-3
IC3 B-3
IC4 B-3
IC5 B-2
IC6 C-2
IC7 B-5

L1 E-6
L2 F-6
L3 D-3
L4 C-3
L5 F-2
L6 E-2
L7 A-5
L8 C-5

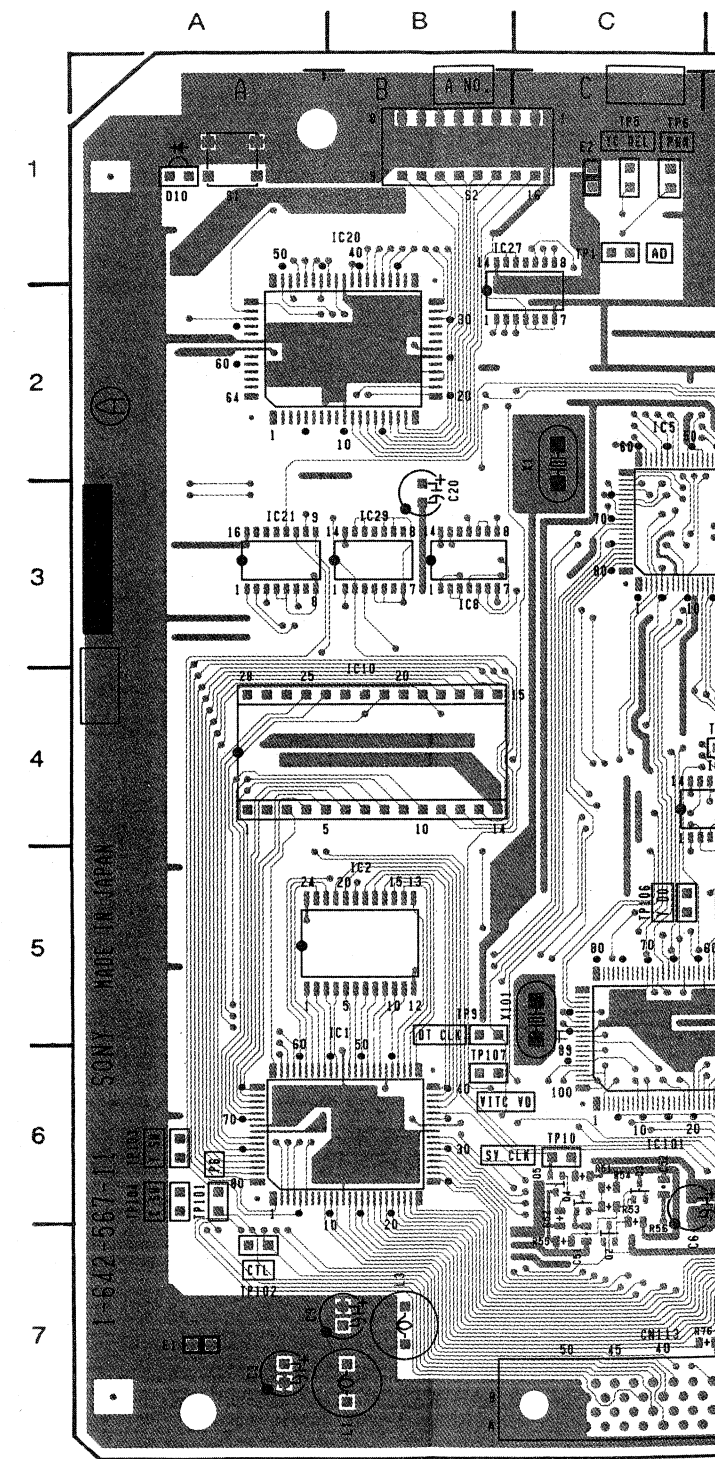
Q1 D-4
Q2 D-5
Q3 B-4
Q4 B-4
Q5 A-5
*Q6 A-4
*Q7 B-4
Q8 B-8
Q9 C-4
Q10 B-4
Q11 C-4
*Q12 C-4
*Q13 C-4
Q14 C-4
Q15 B-2

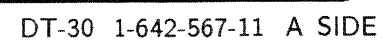
TP1 A-2
TP2 A-2

*; B SIDE



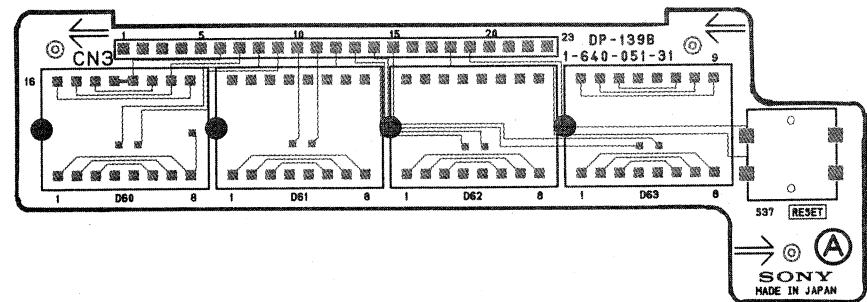
DT-30 1-642-567-11 B SIDE



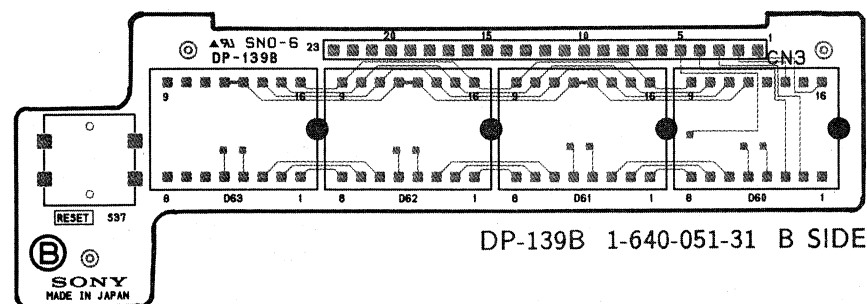


*; B SIDE

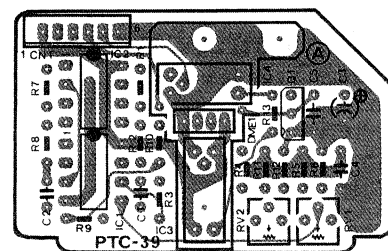
Y-10B ; KEYBOARD
DP-139B ; TIME CODE DISPLAY
PTC-39 ; SEARCH DIAL



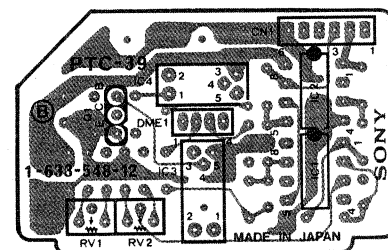
DP-139B 1-640-051-31 A SIDE



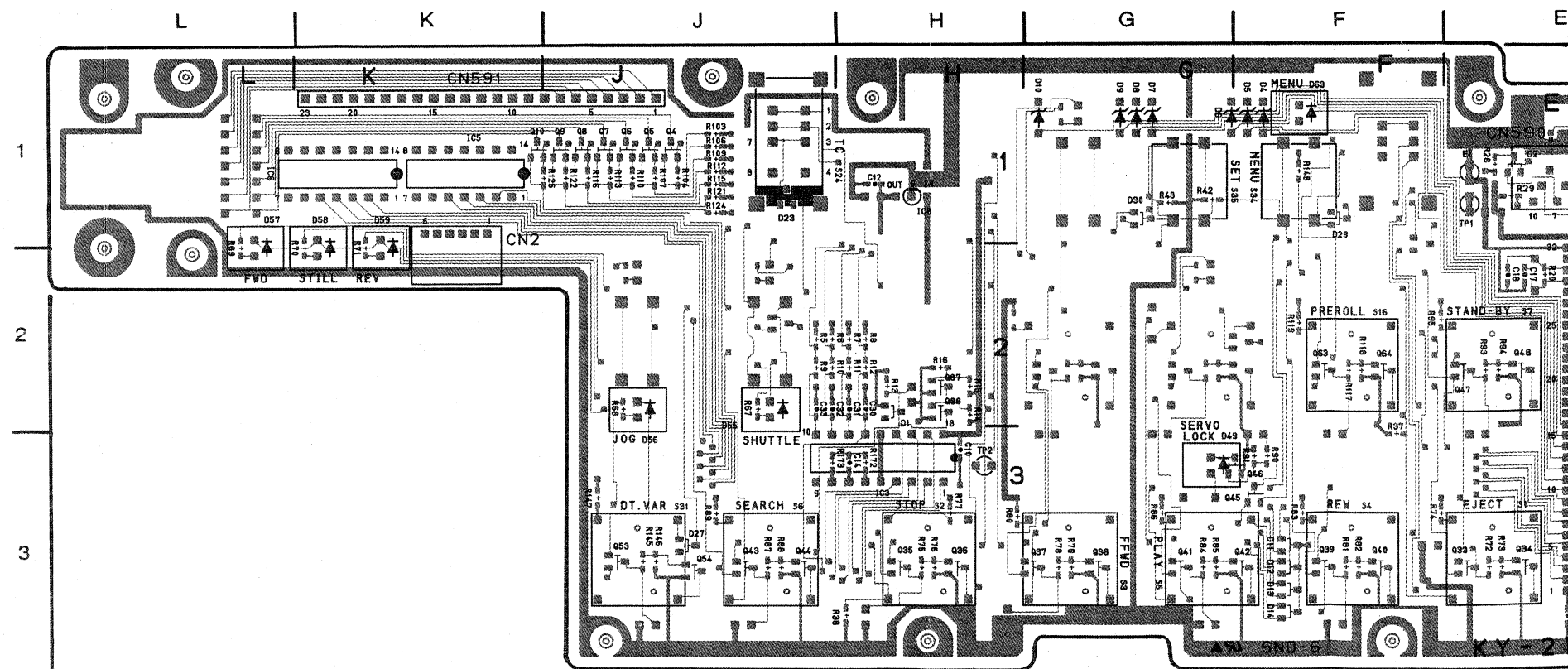
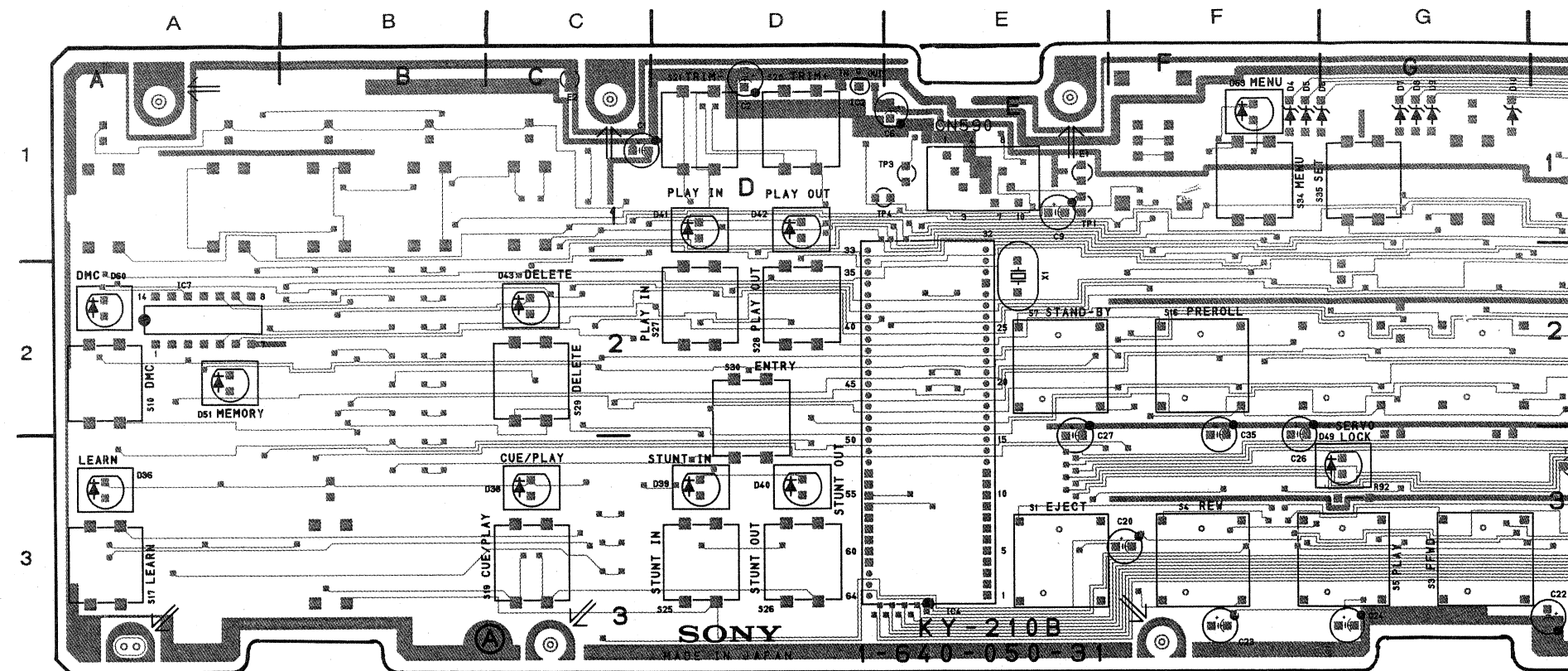
DP-139B 1-640-051-31 B SIDE

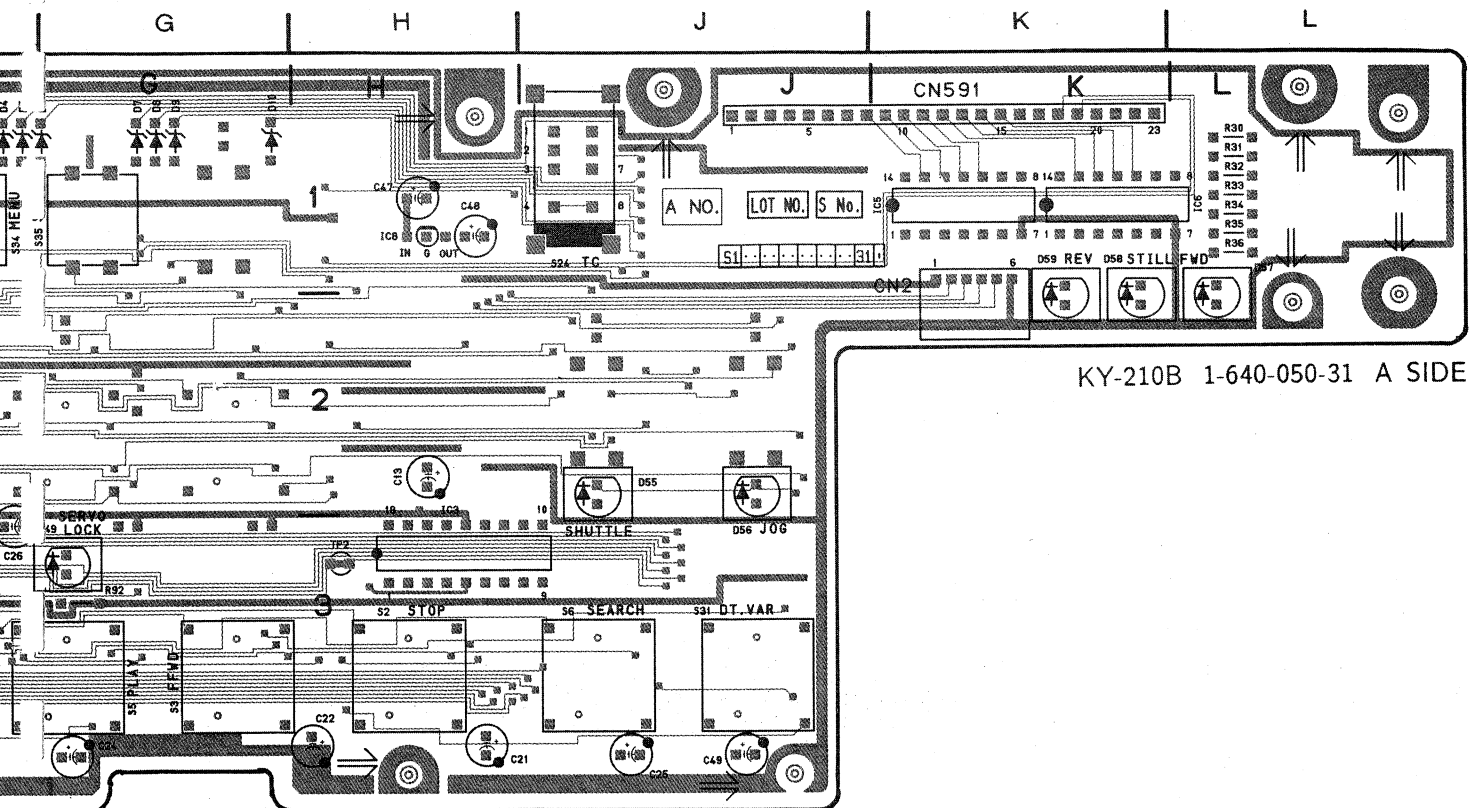


PTC-39 1-633-548-12 A SIDE

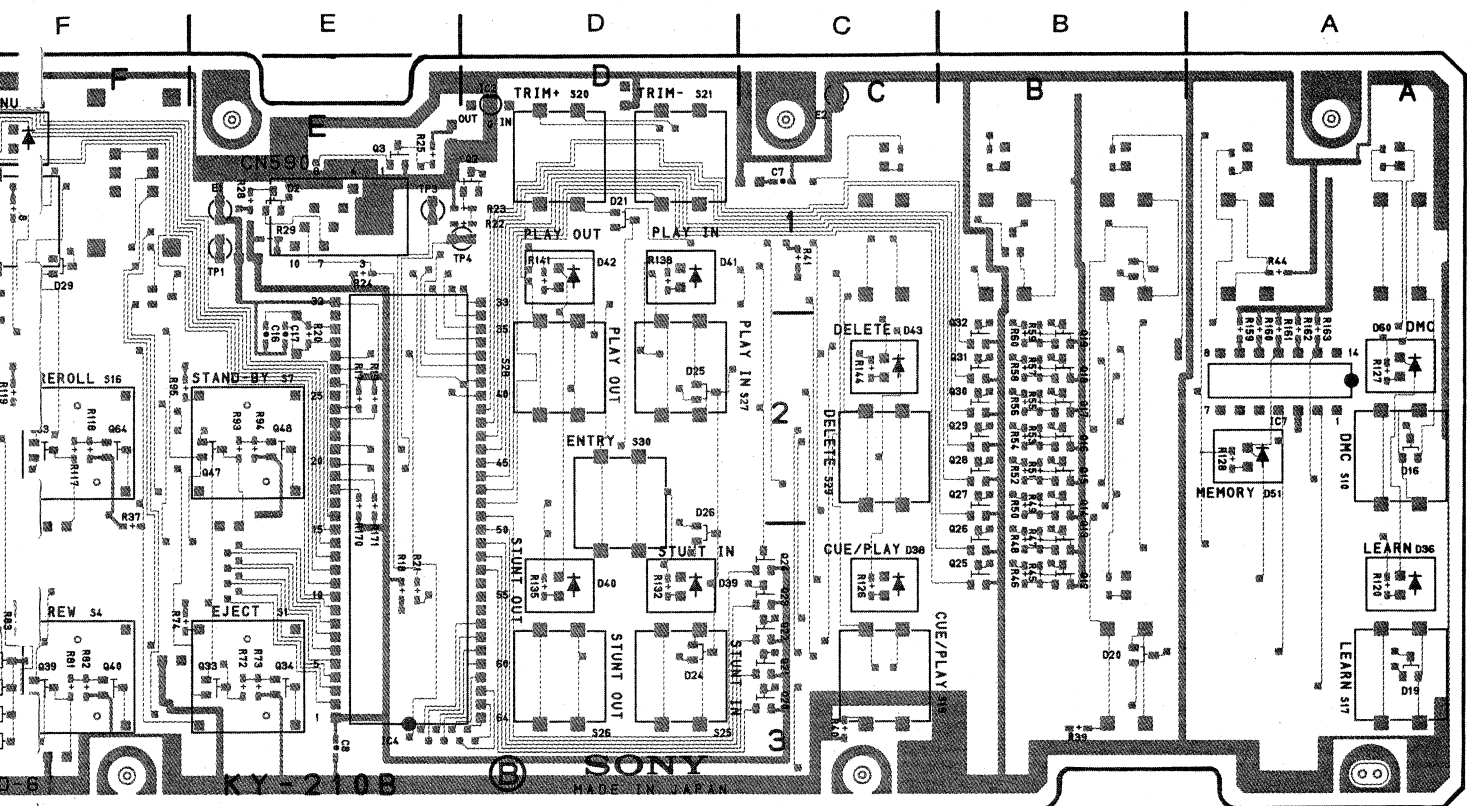


PTC-39 1-633-548-12 B SIDE





KY-210B 1-640-050-31 A SIDE



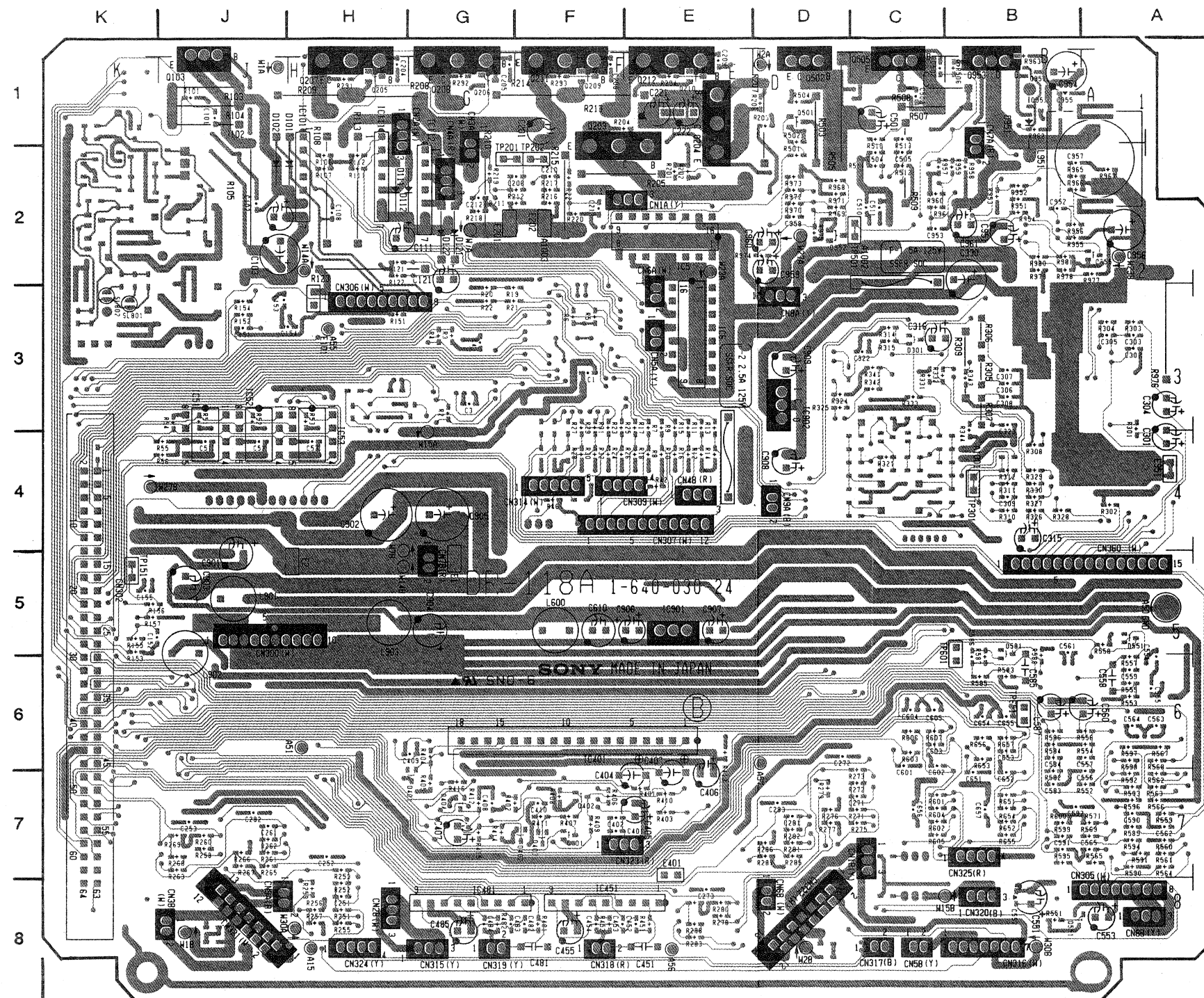
KY-210B 1-640-050-31 B SIDE

KY-210B(1-640-050-31)

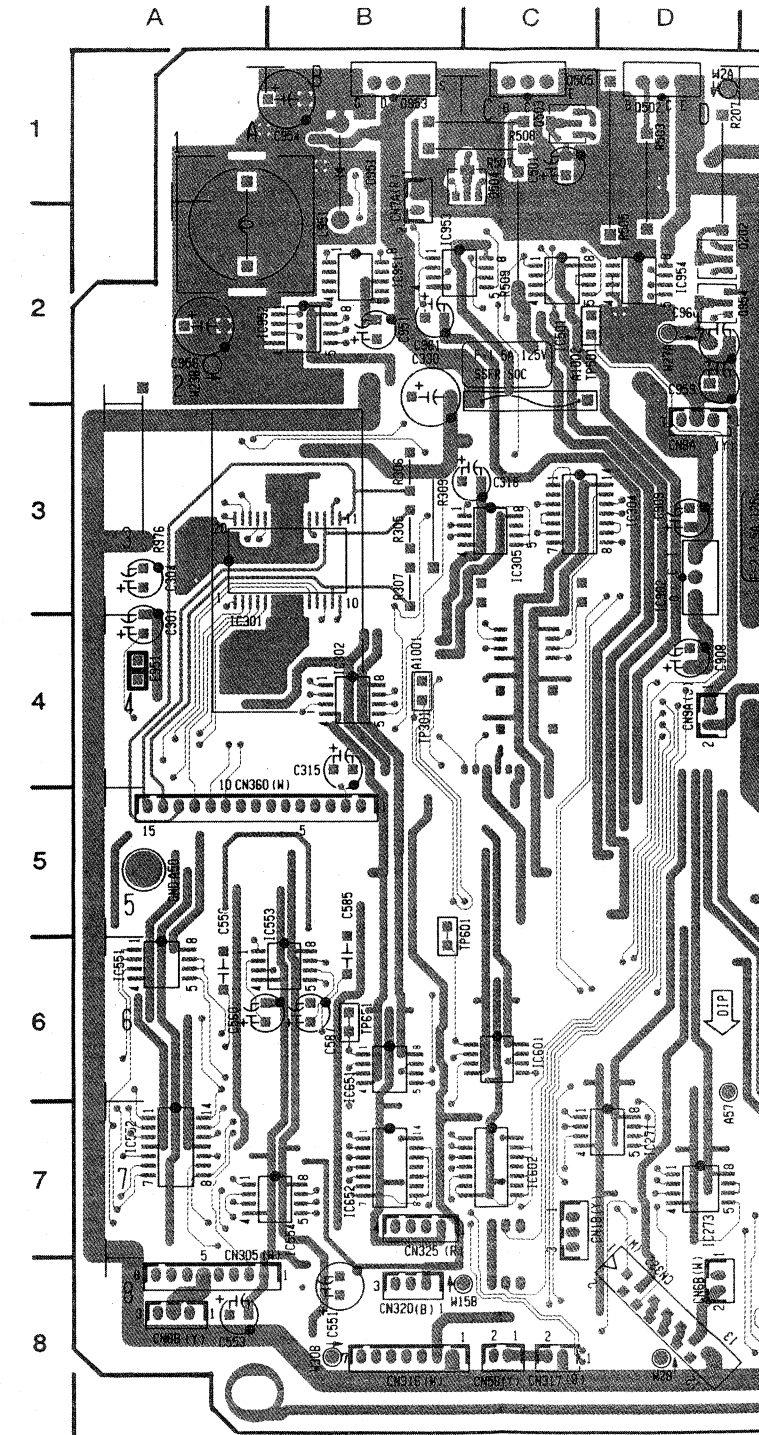
CN2	K-1	*Q13	B-3	TP3	E-1
CN590	E-1	*Q14	B-2	TP4	E-1
CN1003	A-1	*Q15	B-2		
		*Q16	B-2	X1	E-2
*D1	H-2	*Q17	B-2		
*D2	H-1	*Q18	B-2		
D4	F-1	*Q19	B-2		
D5	F-1	*Q20	C-3		
D6	F-1	*Q21	C-3		
D7	G-1	*Q22	C-3		
D8	G-1	*Q23	C-3		
D9	G-1	*Q24	C-3		
D10	G-1	*Q25	B-3		
*D11	F-3	*Q26	B-3		
*D12	F-3	*Q27	B-2		
*D13	F-3	*Q28	B-2		
*D14	F-3	*Q29	B-2		
*D16	A-3	*Q30	B-2		
*D19	A-3	*Q31	B-2		
*D20	B-2	*Q32	B-2		
*D21	D-1	*Q33	E-3		
*D23	J-1	*Q34	E-3		
*D24	D-3	*Q35	H-3		
*D25	D-2	*Q36	H-3		
*D26	D-2	*Q37	G-3		
*D27	J-3	*Q38	G-3		
*D29	F-1	*Q39	F-3		
*D30	G-1	*Q40	F-3		
D36	A-3	*Q41	G-3		
D38	C-3	*Q42	G-3		
D39	D-3	*Q43	J-3		
D40	D-3	*Q44	J-3		
D41	D-1	*Q45	G-3		
D42	D-1	*Q46	G-3		
D43	C-2	*Q47	E-2		
D49	G-3	*Q48	E-2		
D51	A-2	*Q53	J-3		
D55	J-3	*Q54	J-3		
D56	J-3	*Q63	F-2		
D57	L-1	*Q64	F-2		
D58	K-1	*Q87	H-2		
D59	K-1	*Q88	H-2		
D60	A-2				
D63	F-1	S1	E-3		
D1060	A-1	S2	H-3		
D1061	A-1	S3	G-3		
D1062	B-1	S4	F-3		
D1063	B-1	S5	G-3		
		S6	J-3		
E1	E-1	S7	E-2		
E2	C-1	S10	A-2		
		S16	F-2		
IC2	D-1	S17	A-3		
IC3	H-3	S19	C-3		
IC4	E-3	S20	D-1		
IC5	K-1	S21	D-1		
IC6	K-1	S24	J-1		
IC7	A-2	S25	D-3		
IC8	H-1	S26	D-3		
		S27	C-2		
*Q2	D-1	S28	D-2		
*Q3	E-1	S29	C-2		
*Q4	J-1	S30	D-2		
*Q5	J-1	S31	J-3		
*Q6	J-1	S34	F-1		
*Q7	J-1	S35	G-1		
*Q8	J-1	S1037	B-1		
*Q9	J-1				
*Q10	J-1	TP1	E-1		
*Q12	B-3	TP2	H-3		

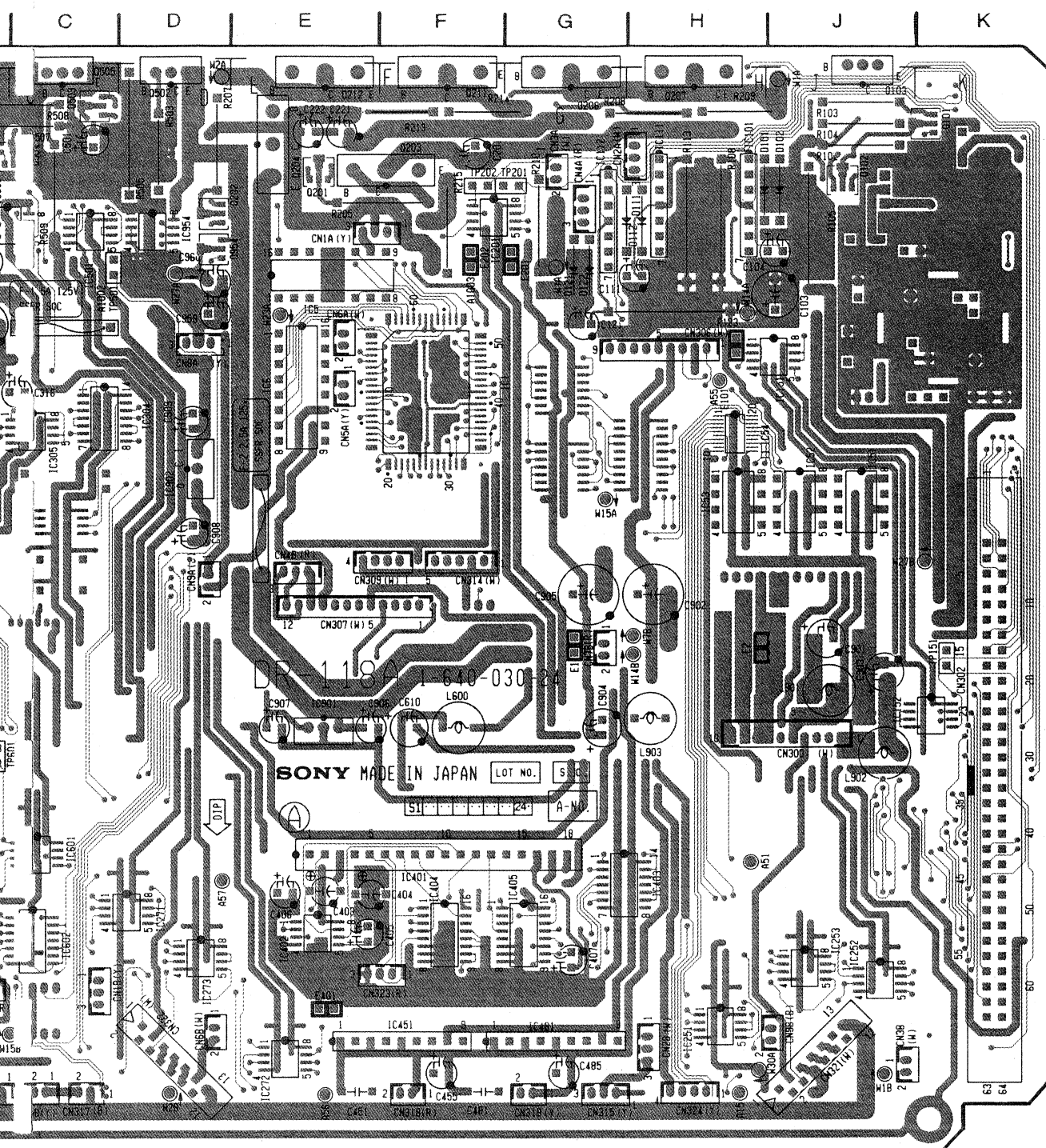
*; B SIDE

C -118A; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFIER, CTL PB, ADJUST DATA STORAGE



DR-118A 1-640-030-24 B SIDE





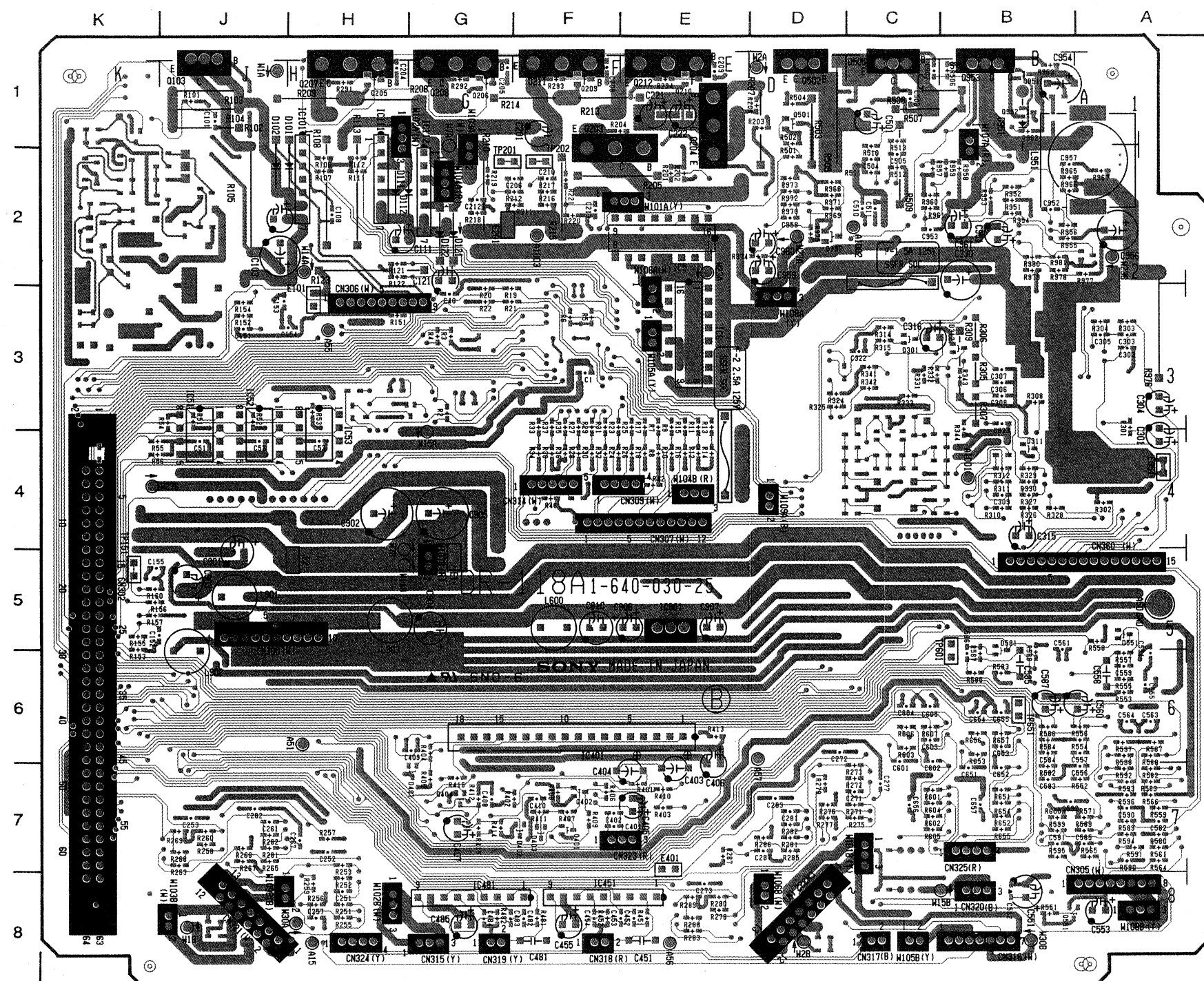
DR-118A 1-640-030-24 A SIDE

DR-118A (1-640-030-24)

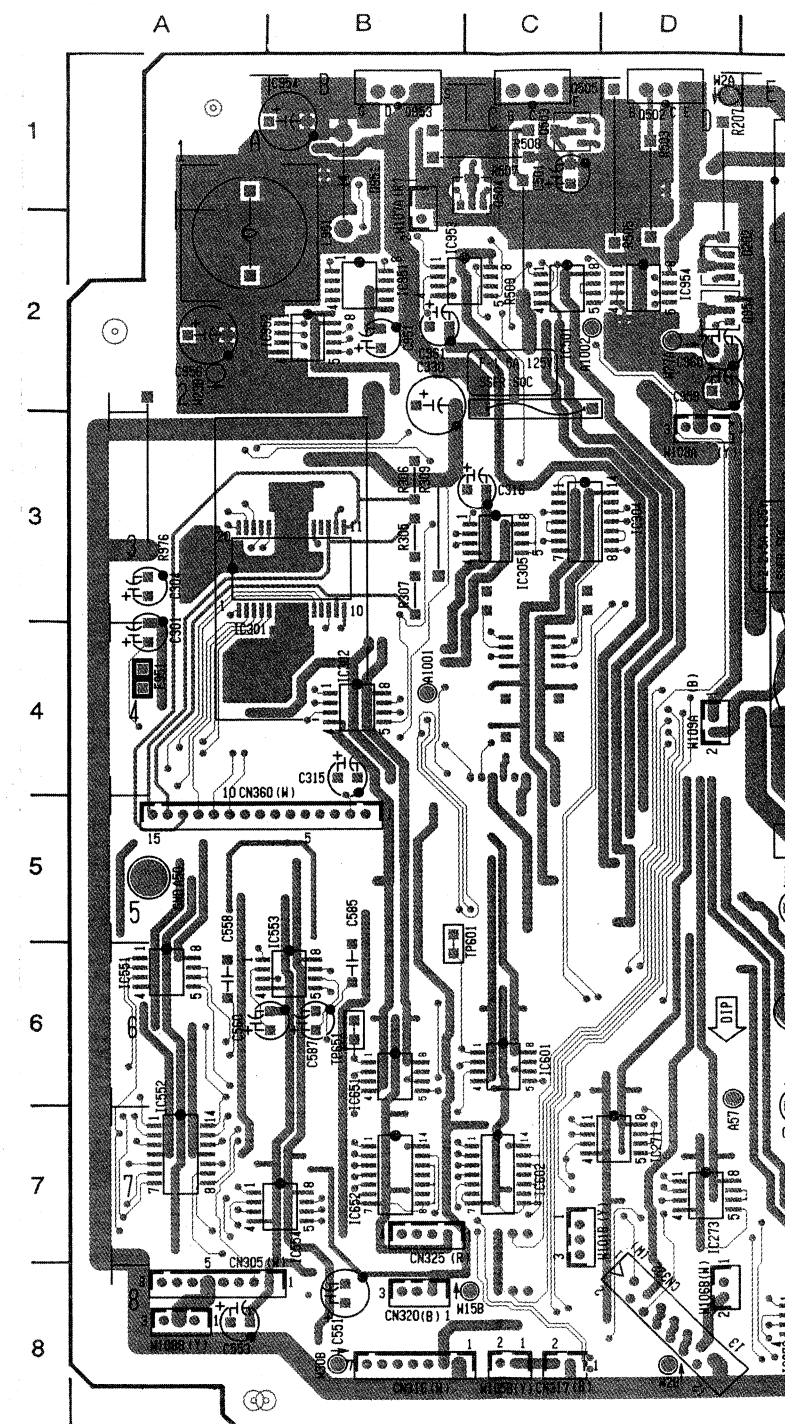
CN1A	E-2	IC54	H-3	Q505	C-1
CN1B	C-7	IC101	H-1	*Q551	B-8
CN2A	H-1	IC111	H-1	*Q951	B-1
CN2B	H-8	IC112	G-1	*Q952	B-1
CN3A	G-2	IC151	J-3	Q953	B-1
CN3B	J-8	IC152	K-5	Q954	D-2
CN4A	G-2	IC201	F-2	Q955	A-2
CN4B	E-4	IC251	H-8		
CN5A	E-3	IC252	J-7	TP151	K-5
CN5B	C-8	IC253	J-7	TP201	G-2
CN6A	E-3	IC271	D-7	TP202	F-2
CN6B	D-8	IC272	E-8	TP301	B-4
CN7A	B-2	IC273	D-7	TP501	C-2
CN7B	G-5	IC301	A-4	TP601	B-6
CN8A	D-3	IC302	B-4	TP651	B-6
CN8B	A-8	IC304	C-3		
CN9A	D-4	IC305	C-3		
CN9B	J-8	IC401	F-6		
CN300	J-5	IC402	E-7		
CN302	K-5	IC403	G-6		
CN305	A-8	IC404	F-7		
CN306	H-3	IC405	G-7		
CN307	E-4	IC451	F-8		
CN309	E-4	IC481	G-8		
CN314	F-4	IC501	C-2		
CN315	G-8	IC551	B-6		
CN316	B-8	IC552	A-7		
CN317	C-8	IC553	B-6		
CN318	F-8	IC554	A-7		
CN319	G-8	IC601	C-6		
CN320	B-8	IC602	C-7		
CN321	J-8	IC651	B-6		
CN322	D-8	IC652	B-7		
CN323	E-7	IC901	E-5		
CN324	H-8	IC902	D-3		
CN325	B-7	IC951	B-2		
CN360	A-5	IC952	B-2		
		IC953	B-2		
		IC954	D-2		
D101	H-1				
D102	J-1				
D111	H-2	L600	F-5		
D121	G-2	L901	J-5		
D122	G-2	L902	J-5		
*D301	C-3	L903	H-5		
*D401	G-7	L951	B-2		
*D402	F-7				
*D403	F-7	Q101	K-1		
*D551	A-5	Q102	J-2		
*D581	A-6	Q103	J-1		
D951	B-1	Q201	E-1		
*D952	D-2	Q202	D-2		
		Q203	F-1		
E1	G-5	Q204	E-1		
E2	H-5	*Q205	H-1		
E101	H-3	*Q206	G-1		
E201	G-2	Q207	H-1		
E401	E-8	Q208	G-1		
E951	A-4	*Q209	F-1		
		*Q210	E-1		
F1	C-2	Q211	F-1		
F2	E-4	Q212	E-1		
		*Q401	F-7		
IC1	F-3	*Q402	F-7		
IC5	E-2	*Q404	G-7		
IC6	E-3	*Q501	D-1		
IC51	J-3	Q502	D-1		
IC52	J-3	Q503	C-1		
IC53	H-4	Q504	C-1		

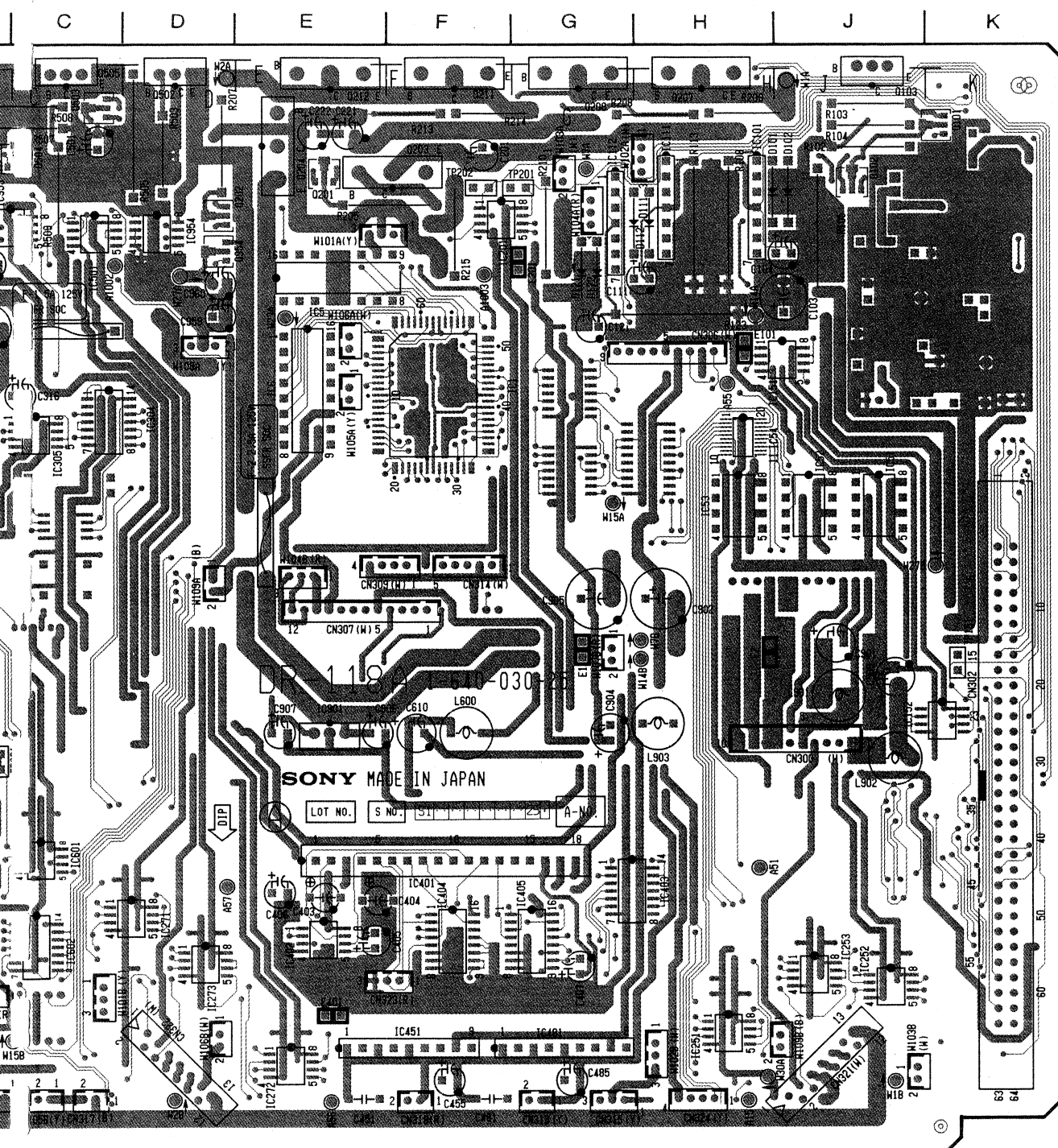
*: B SIDE

**R 18A ; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER,
FG AMPLIFIER, CTL PB, ADJUST DATA STORAGE**



DR-118A 1-640-030-25 B SIDE





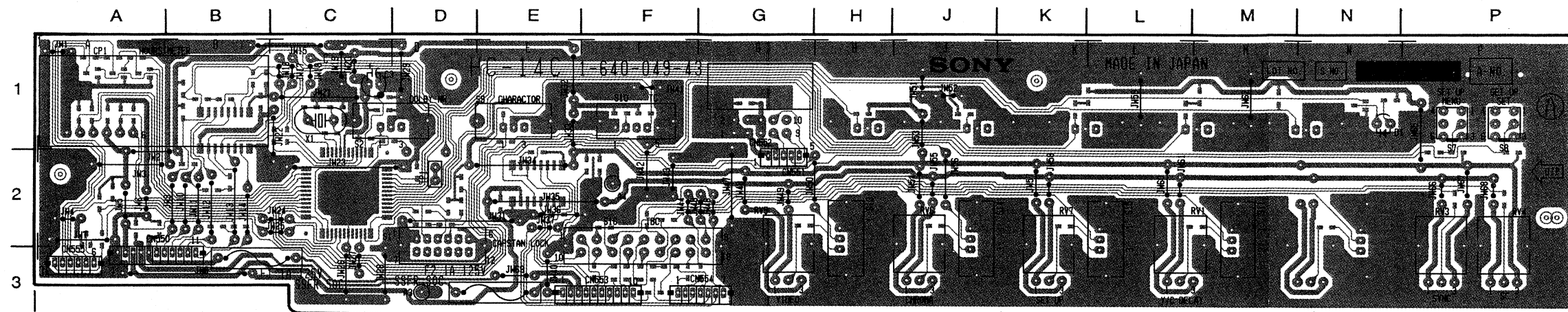
DR-118A 1-640 030-25 A SIDE

DR-118A(1-640-030-25)

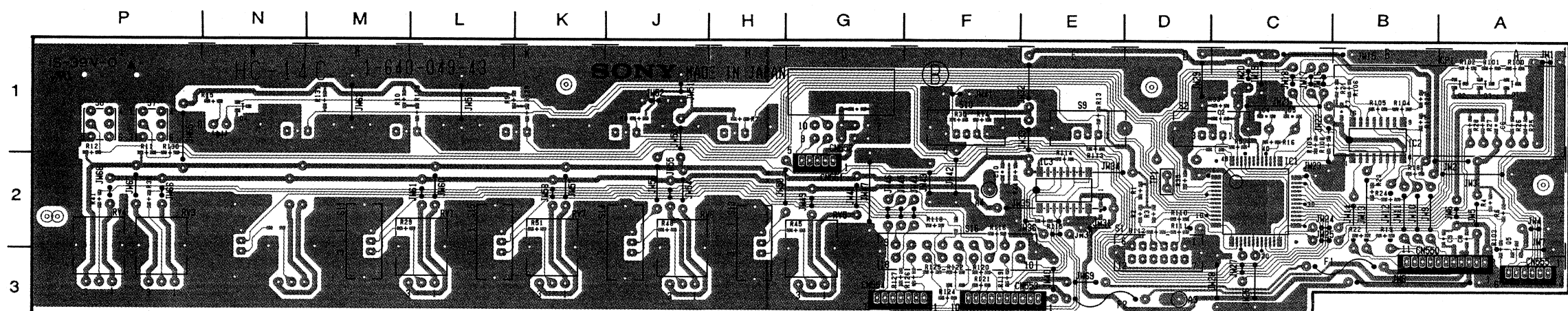
CN151	J-3	IC253	J-7	*Q808	K-2
CN152	J-3	IC271	D-7	*Q809	K-2
CN153	H-4	IC272	E-8	*Q951	B-1
CN300	J-6	IC273	D-7	*Q952	B-1
CN302	K-5	IC301	A-4	Q953	B-1
CN305	A-8	IC302	B-4	Q954	D-2
CN306	H-3	IC304	D-3		
CN307	E-4	IC305	C-3	TP151	K-5
CN309	E-4	IC401	F-6	TP201	G-2
CN311	F-4	IC402	E-7	TP202	F-2
CN312	C-8	IC403	H-7	TP601	B-6
CN314	F-4	IC404	F-7	TP651	B-6
CN315	G-8	IC405	G-7	TP801	J-3
CN316	B-8	IC451	F-8		
CN317	C-8	IC481	G-8	T801	K-3
CN318	F-8	IC501	C-2		
CN319	G-8	IC551	A-6		
CN320	B-8	IC552	A-7		
CN321	J-8	IC553	A-5		
CN322	D-8	IC554	B-7		
CN323	E-7	IC601	C-6		
CN324	H-8	IC602	C-7		
CN325	B-7	IC651	B-6		
CN330	J-3	IC652	B-7		
CN360	A-5	IC901	E-5		
		IC951	B-2		
		IC952	A-2		
		IC953	B-2		
		IC954	D-2		
D101	H-1				
D102	J-1				
D111	H-2				
D112	H-2				
D121	G-2	L600	F-5		
D122	G-2	L801	J-2		
*D301	C-3	L901	J-6		
*D311	B-4	L902	J-6		
*D312	B-3	L903	H-6		
*D401	G-7	L951	B-2		
*D402	F-7				
*D403	F-7	Q101	K-1		
*D551	A-5	Q102	J-2		
*D581	B-5	Q103	J-1		
D951	B-1	Q201	E-2		
*D952	D-2	Q202	D-2		
		Q203	F-1		
		Q204	E-2		
E1	G-5	*Q205	H-1		
E2	H-5	*Q206	G-1		
E101	H-3	Q207	H-1		
E201	G-2	Q208	G-1		
E801	K-3	*Q209	F-1		
E951	A-4	*Q210	E-1		
		Q211	F-1		
F1	C-2	Q212	E-1		
F2	E-3	*Q401	F-7		
		*Q402	F-7		
IC1	F-3	*Q404	G-7		
IC5	E-2	*Q501	D-1		
IC6	E-3	Q502	D-1		
IC51	J-4	Q503	C-1		
IC52	J-4	Q504	C-1		
IC53	H-4	Q505	C-1		
IC54	H-3	*Q551	B-8		
IC101	H-1	*Q801	K-1		
IC111	H-1	*Q802	K-2		
IC112	G-1	Q803	J-2		
IC151	J-3	*Q804	J-2		
IC152	J-5	*Q805	K-2		
IC201	F-2	*Q806	K-2		
IC251	H-8	*Q807	K-2		
IC252	J-7				

*: B side

HC-14C ; SUB-CONTROL PANEL



HC-14C 1-640-049-43 A SIDE



HC-14C 1-640-049-43 B SIDE

HC-14C(1-640-049-43)

CN550 A-3
CN551 G-2
CN552 G-2
CN553 F-3
CN554 G-3
CN555 A-3

CP1 A-1

D1 N-1

F1 B-3
F2 E-3

*IC1 C-2
*IC2 B-1
*IC3 E-2

*Q1 A-1
*Q2 A-1
*Q3 A-1
*Q4 N-1
*Q5 A-2

RV1 L-2
RV3 P-2
RV4 P-2
RV5 G-2
RV6 J-2
RV7 K-2

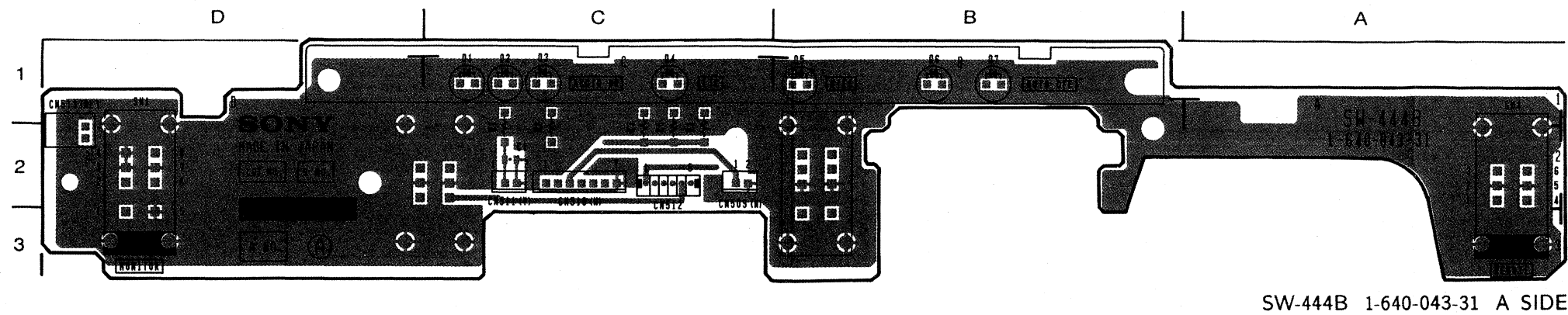
S1 D-2
S2 C-1
S7 P-1
S8 P-1
S9 E-1
S10 F-1
S11 M-2
S13 H-2
S14 J-2
S15 L-2
S16 F-2

TP1 D-2

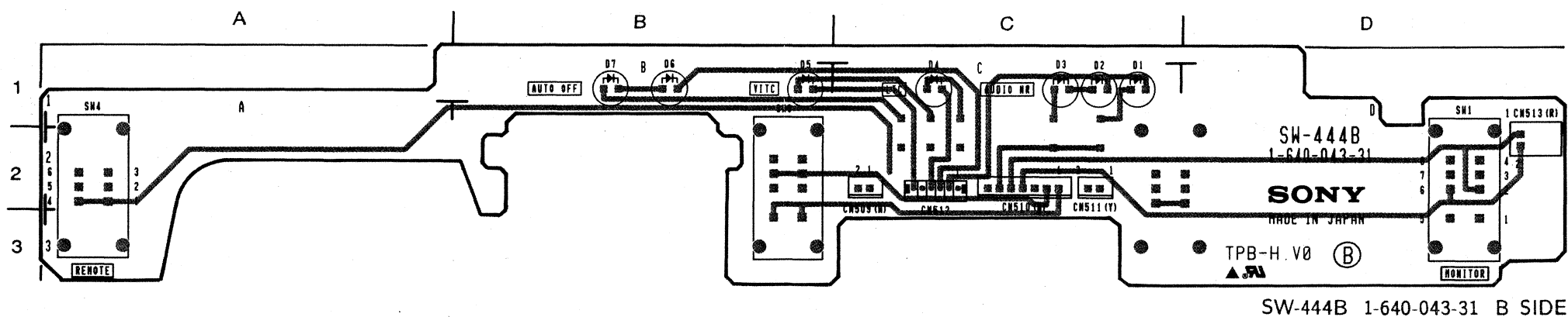
X1 C-1

*: B SIDE

SW-444B ; SELECT SWITCH, INDICATOR, RF/VIDEO LEVEL METER



SW-444B 1-640-043-31 A SIDE



SW-444B 1-640-043-31 B SIDE

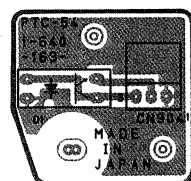
SW-444B(1-640-043-31)

*CN509	C-2
CN510	C-2
CN511	C-2
CN512	C-2
CN513	D-2

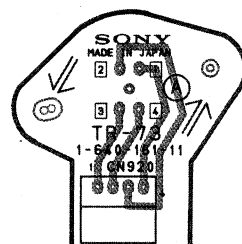
D1	C-1
D2	C-1
D3	C-1
D4	C-1
D5	B-1
D6	B-1
D7	B-1

SW1	D-2
SW4	A-2

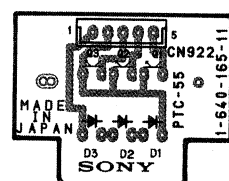
*; B SIDE



PTC-54 1-640-163-12 A SIDE



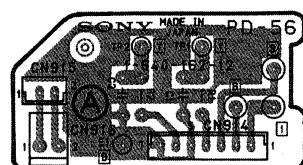
TR-73 1-640-161-11 A SIDE



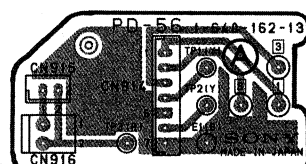
PTC-55 1-640-165-11 A SIDE



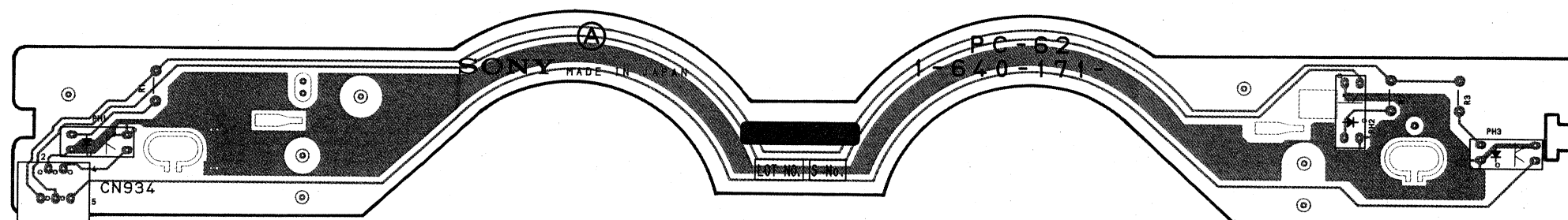
LP-57 1-640-172-11 A SIDE



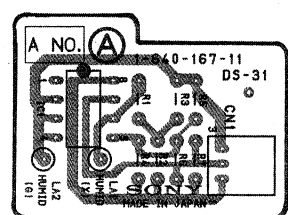
PD-56 1-640-162-12 A SIDE



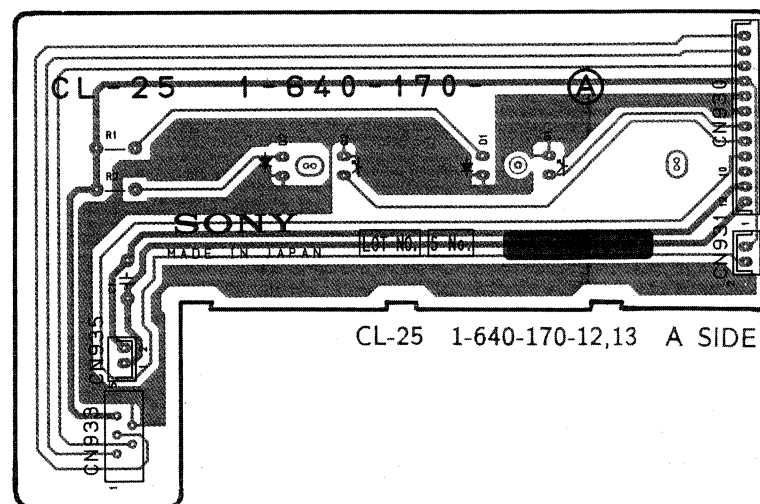
PD-56 1-640-162-13 A SIDE



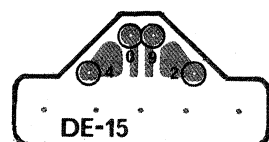
PC-62 1-640-171-11,12 A SIDE



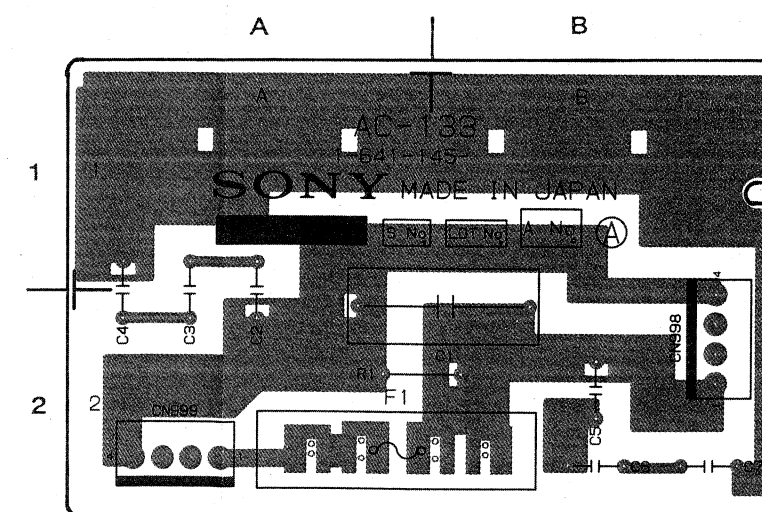
DS-31 1-640-167-11 A SIDE



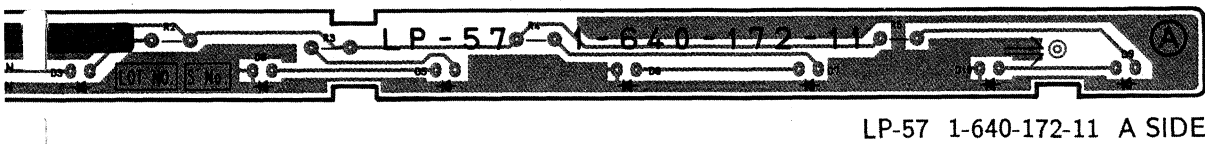
CL-25 1-640-170-12,13 A SIDE



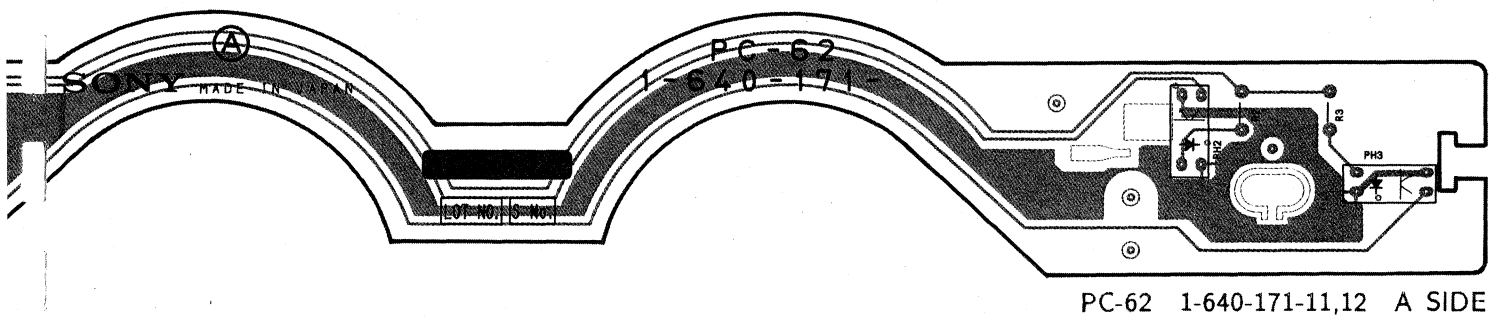
DE-15 1-622-606-12 A SIDE



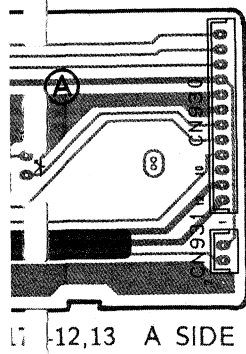
AC-133 1-641-145-12 A SIDE



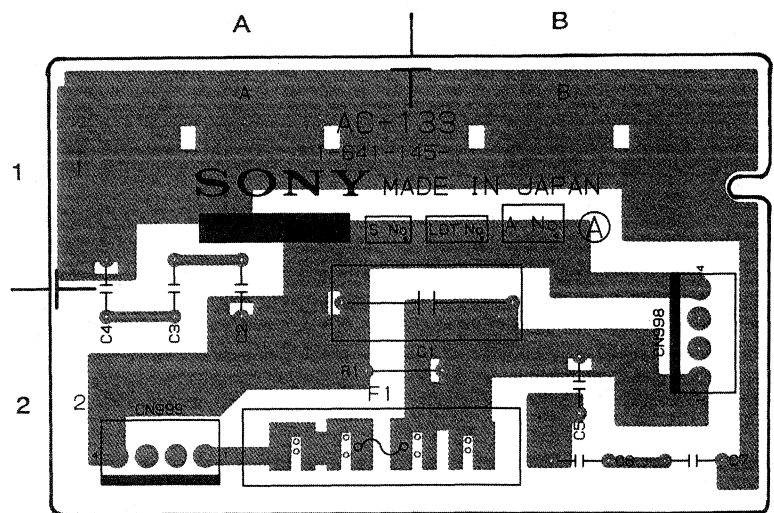
LP-57 1-640-172-11 A SIDE



PC-62 1-640-171-11,12 A SIDE

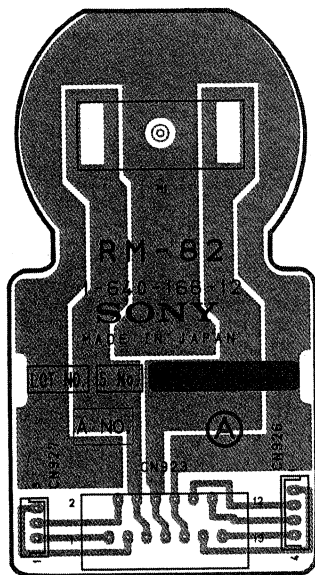


AC-133 1-641-145-12 A SIDE

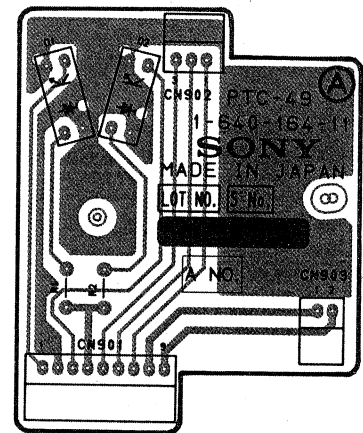


AC-133 1-641-145-12 A SIDE

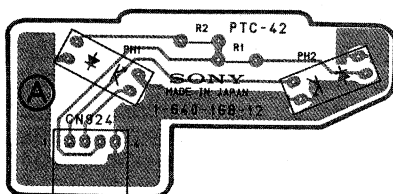
RM-82 ; REEL MOTOR
 PTC-42 ; CASSETTE SIZE SENSOR
 PTC-49 ; THREADING MOTOR
 PTC-54 ; THREADING FG
 PTC-55 ; CASSETTE INFORMATION SENSOR (TAPE THICKNESS, REEL HUB DIAMETER, METAL/OXIDE)
 PD-56 ; PINCH/CLEANING SOLENOID CONNECTION, REEL FG CHECK
 DS-31 ; CONDENSATION SENSOR
 TR-73 ; S/T TENSION SENSOR
 DE-15 ; REEL FG
 LP-57 ; CASSETTE ILLUMINATION
 PC-62 ; CASSETTE IN/LARGE CASSETTE SENSOR
 CL-25 ; CASSETTE COMPARTMENT (CASSETTE LOADING BEGIN/NEAR-END SENSOR, LP-57 CONNECTION, CASSETTE LOADING MOTOR)
 AC-133 ; AC LINE FILTER, FUSE



RM-82 1-640-166-12 A SIDE

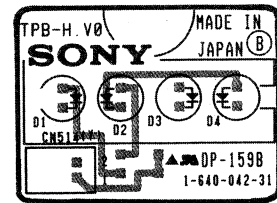


PTC-49 1-640-164-11 A SIDE

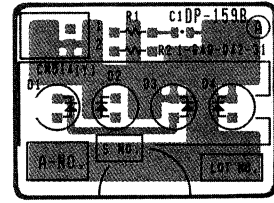


PTC-42 1-640-168-12 A SIDE

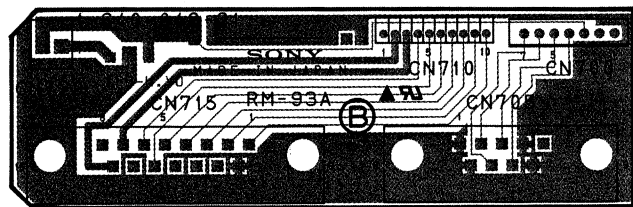
DP-159B ; RF/VIDEO METER BACK LIGHT
RM-93A ; TBC REMOTE CONNECTOR



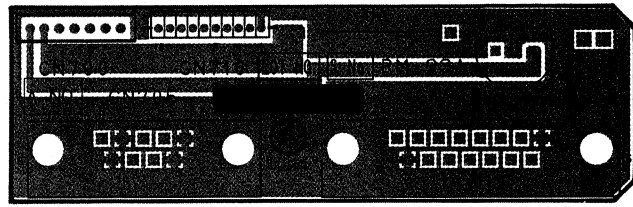
DP-159B 1-640-042-31 B SIDE



DP-159B 1-640-042-31 A SIDE

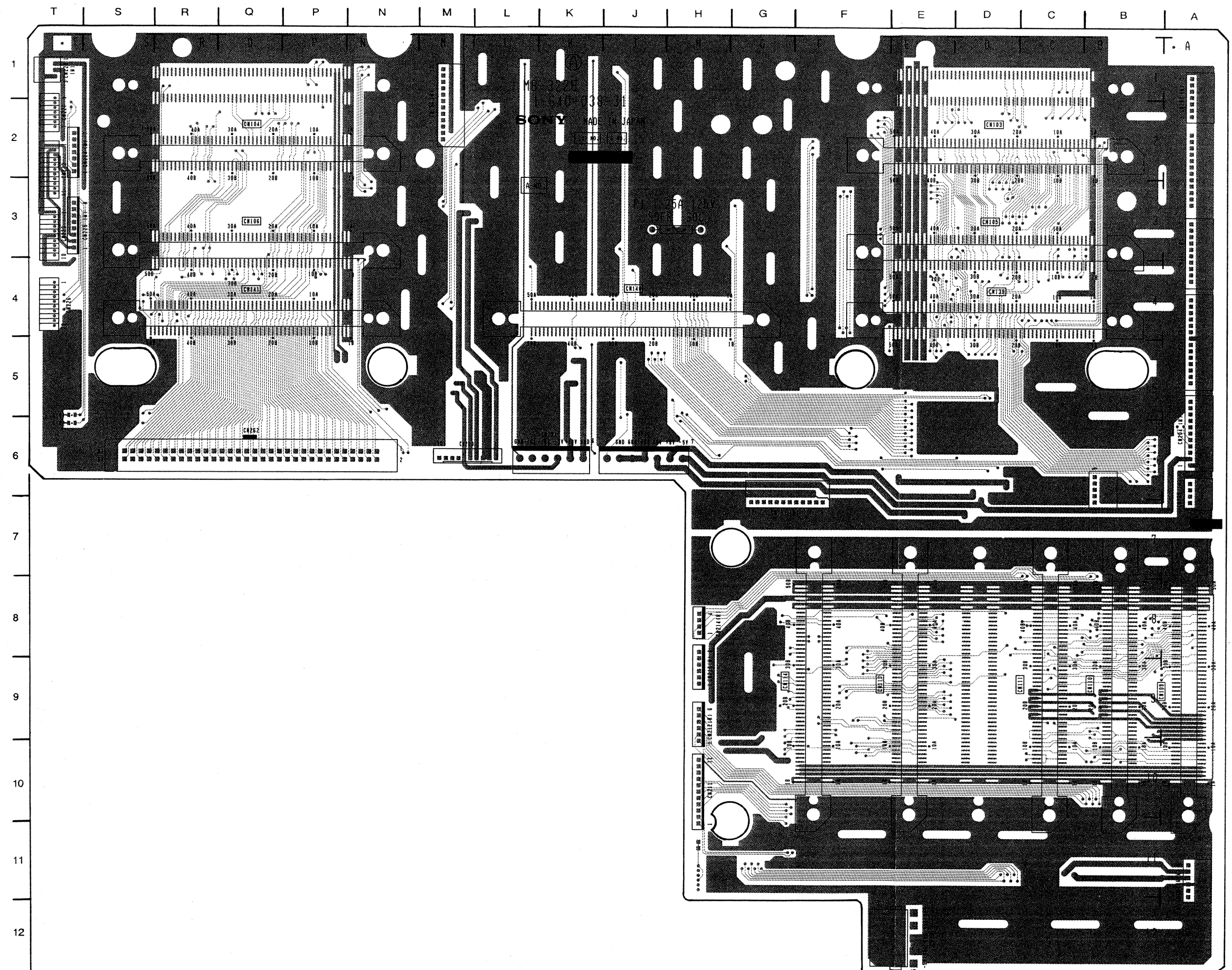


RM-93A 1-640-048-21 B SIDE



RM-93A 1-640-048-21 A SIDE

MB-322B ; MOTHER BOARD

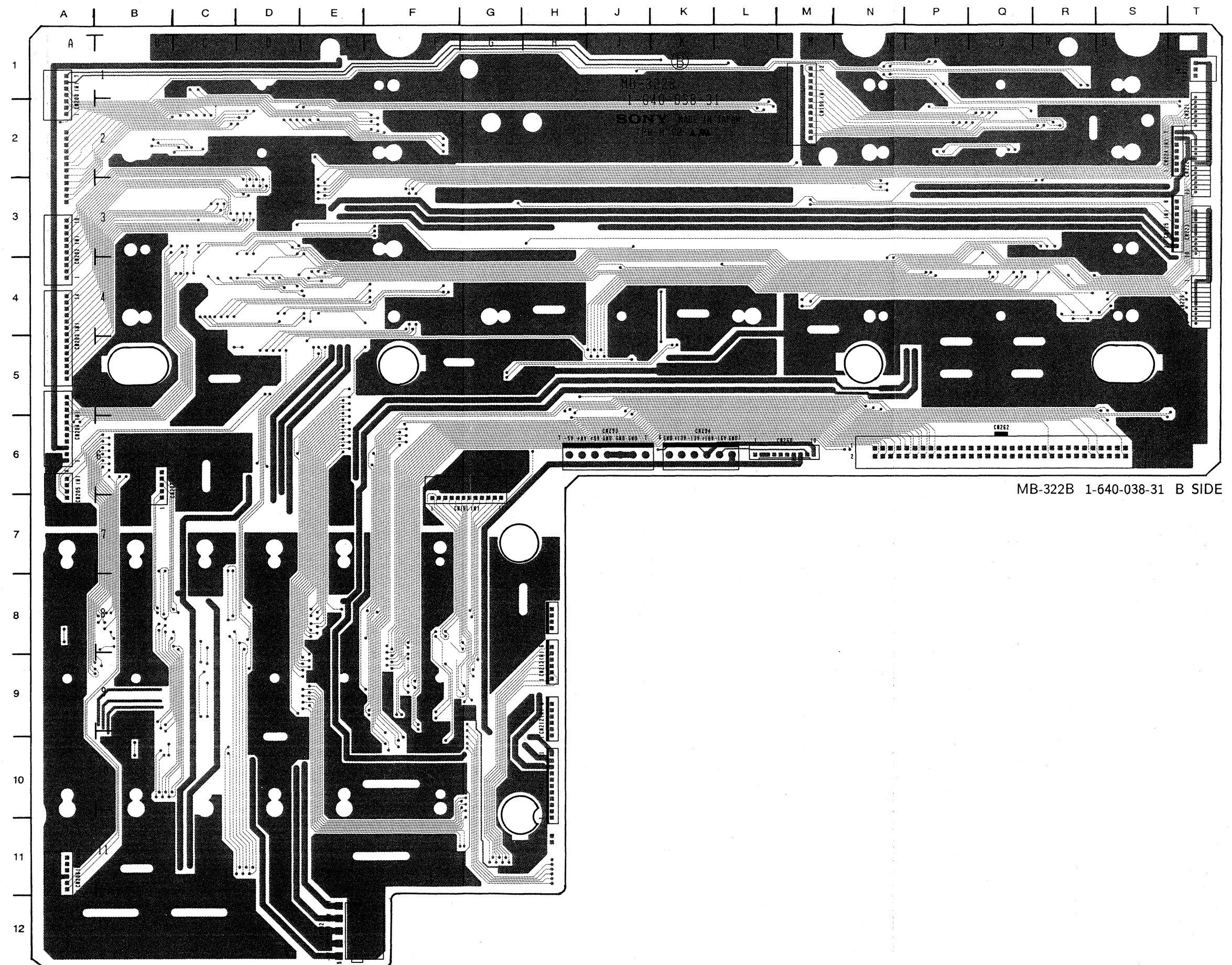


MB-322B(1-640-038-31)

CN103	D-2
CN104	Q-2
CN105	D-3
CN106	Q-3
CN109	A-9
CN110	B-9
CN111	C-9
CN113	F-9
CN114	G-9
CN139	D-4
CN140	J-4
CN141	Q-4
CN150	M-2
CN151	G-7
CN200	A-2
CN202	A-4
CN203	A-5
CN204	A-6
CN205	A-6
CN206	A-11
CN207	B-6
CN211	H-10
CN212	H-9
CN213	H-9
CN214	H-8
CN220	T-1
CN221	T-2
CN222	T-2
CN223	T-3
CN224	S-2
CN225	S-3
CN226	T-4
CN260	M-6
CN262	Q-6
CN292	E-12
CN293	J-6
CN294	K-6
F1	J-3

*; B SIDE

MB-322B ; MOTHER BOARD



MB-322B(1-640-038-31)

CN103	D-2
CN104	Q-2
CN105	D-3
CN106	Q-3
CN109	A-9
CN110	B-9
CN111	C-9
CN113	F-9
CN114	G-9
CN139	D-4
CN140	J-4
CN141	Q-4
CN150	M-2
CN151	G-7
CN200	A-2
CN202	A-4
CN203	A-5
CN204	A-6
CN205	A-6
CN206	A-11
CN207	B-6
CN211	H-10
CN212	H-9
CN213	H-9
CN214	H-8
CN220	T-1
CN221	T-2
CN222	T-2
CN223	T-3
CN224	S-2
CN225	S-3
CN226	T-4
CN260	M-6
CN262	Q-6
CN292	E-12
CN293	J-6
CN294	K-6

F1	J-3
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*; B SIDE

SECTION 16

SCHEMATIC DIAGRAM

CIRCUIT CONFIGURATION

The circuit information is provided below.

System	Board	Circuit Function
VIDEO	RP-57BP	RF PB Amplifier
	VP-33BP	Y/C PB Process (PB RF EQ, Demod., Encode, Y-RF Envelope DET), Composite Out Driver
	TBC-18P	Time Base Corrector, CTDM (Expand)
	CP-166A	Output Connector, Component Out Driver
AUDIO	AU-148AP	CH-1 PB Process, Dolby System,
	AU-149AP	CH-2 PB Process, Dolby System
	AU-150A	Mode Control, LTC PB
	CP-167A	Input/Output Connector, Line Out Driver
	DP-138B	Audio Level Meter Back Light
	VR-116B	PB Level Control, Headphone Volume Control
	MA-44B	Meter Driver, Headphone Amplifier
SERVO/ SYSTEM CONTROL/ TIME CODE	SS-48P	System Control, Servo System Main, Time Code Reader, Character Generator
	DT-29AP	Dynamic Tracking
	DT-30	Dynamic Tracking
	KY-210B	Keyboard
	DP-139B	Time Code Display
	DR-118A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG Amplifier, CTL PB, Adjust Data Storage
	CL-25	Cassette Compartment (Cassette Loading Begin/Near-end Sensor, LP-57 Connection, Cassette Loading Motor)
	DE-15	Reel FG
	DS-31	Condensation Sensor
	HC-14C	Sub-control Panel
	PC-62	Cassette In/Large Cassette Sensor
	PD-56	Pinch/Cleaning Solenoid Connection, Reel FG Check
	PTC-39	Search Dial
	PTC-42	Cassette Size Sensor
	PTC-49	Threading Motor
	PTC-54	Threading FG
	PTC-55	Cassette Information Sensor (Tape Thickness, Reel Hub Diameter, Metal/Oxide)
	RM-82	Reel Motor
	RM-93A	TBC Remote Connector
	SW-444B	Select Switch, Indicator, RF/Video Level Meter
	TR-73	S/T Tension Sensor
OTHERS	AC-133	AC Line Filter, Fuse
	DP-159B	RF/Video Meter Back Light
	LP-57	Cassette Illumination
	MB-322B	Mother Board

	Board	Page
A	AC-133	16-173
	AU-148AP	16-66
	AU-149AP	16-70
	AU-150A	16-74
C	CL-25	16-173
	CP-166A	16-63
	CP-167A	16-81
D	DE-15	16-173
	DP-138B	16-83
	DP-139B	16-138
	DP-159B	16-175
	DR-118A	16-142
	DS-31	16-173
	DT-29AP	16-118
	DT-30	16-122
H	HC-14C	16-158
K	KY-210B	16-138
L	LP-57	16-173
M	MA-44B	16-83
	MB-322B	16-163
P	PC-62	16-173
	PD-56	16-173
	PTC-39	16-139
	PTC-42	16-173
	PTC-49	16-173
	PTC-54	16-173
	PTC-55	16-173
R	RM-82	16-173
	RM-93A	16-175
	RP-57BP	16-4
S	SS-48P	16-86
	SW-444B	16-161
T	TBC-18P	16-48
	TR-73	16-173
V	VP-33BP	16-12
	VR-116B	16-83

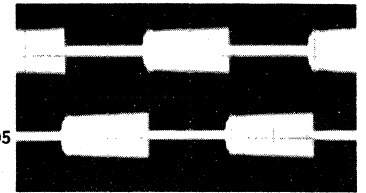
RP-57BP(1-640-034-24)

TP5	A-6
TP105	B-6
TP205	D-6
TP305	D-6

① TP 5/TP 105
PB

TP 5

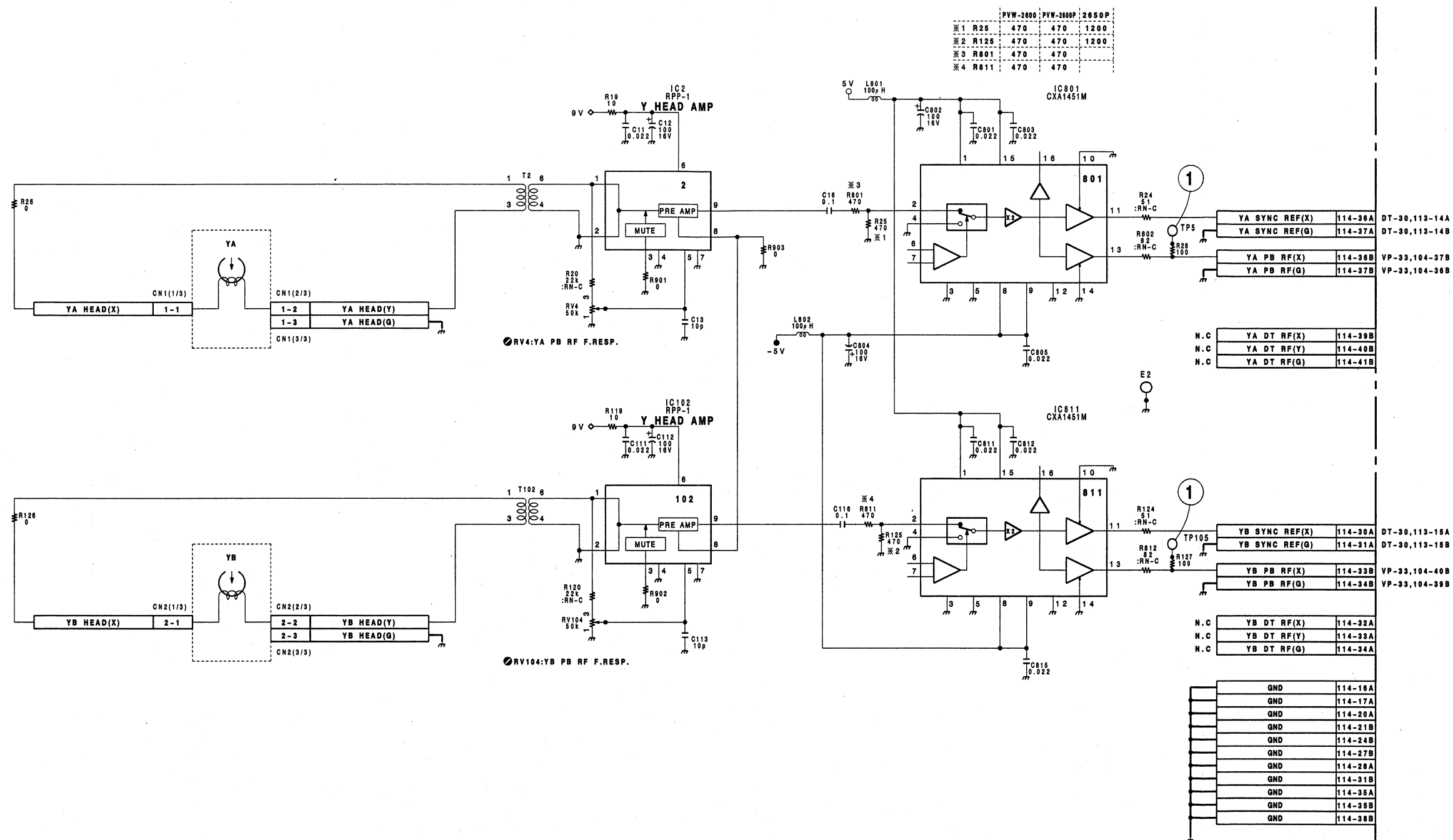
TP 105



V : 200 mV/div

H : 10 ms/div

RP-57BP(1/2);Y RF AMPLIFIER



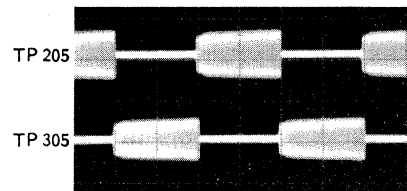
RP-57BP BOARD (1/2)

BOARD NO.1-640-034-24
PVW-2650P(EK);#10001-

RP-57BP(1-640-034-24)

TP5	A-6
TP105	B-6
TP205	D-6
TP305	D-6

① TP 205/TP 305
PB



V : 200 mV/div
H : 10 ms/div

BOARD NO.1-640-034-24
PVW-2650P(EK);#10001-

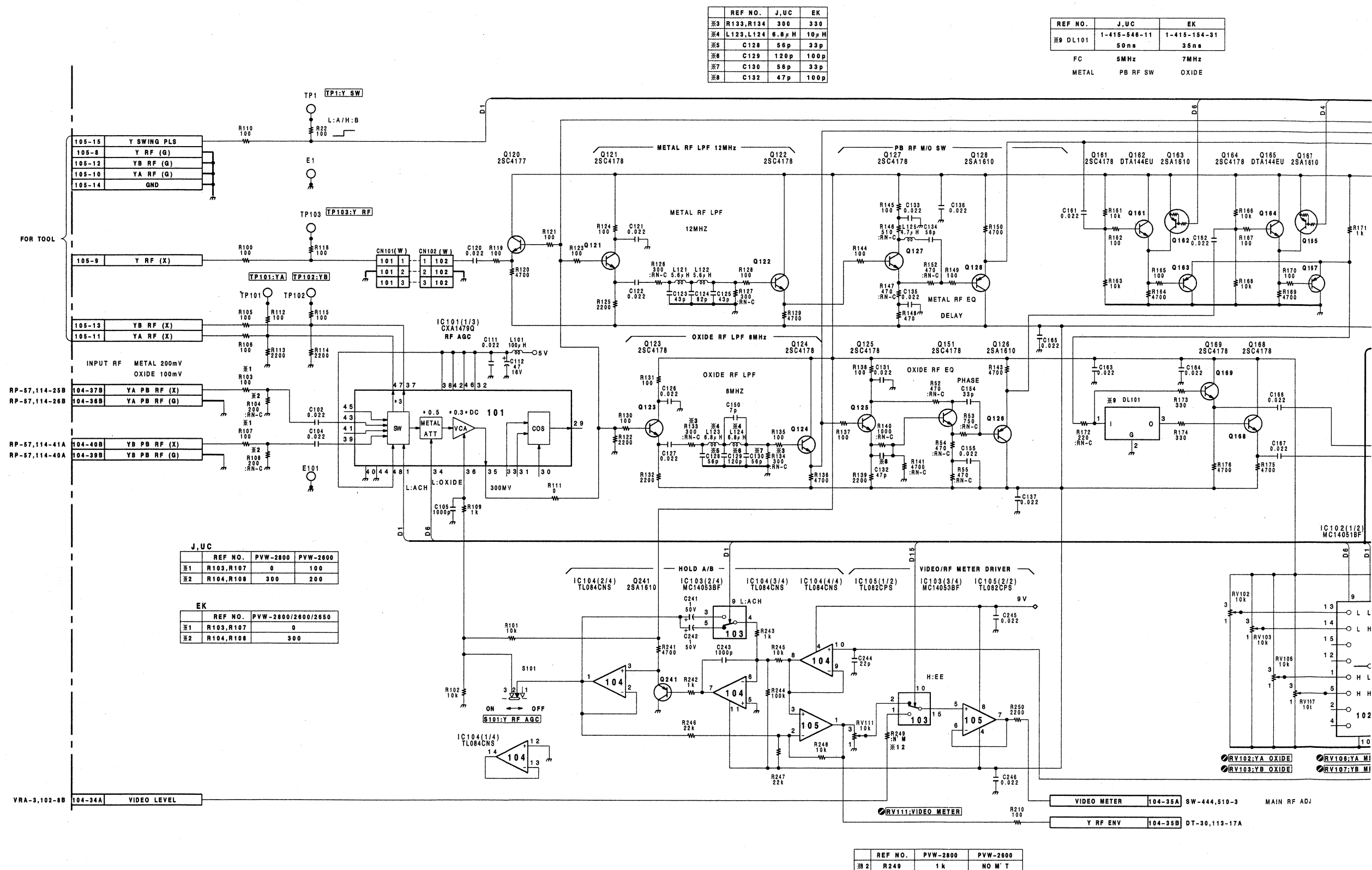


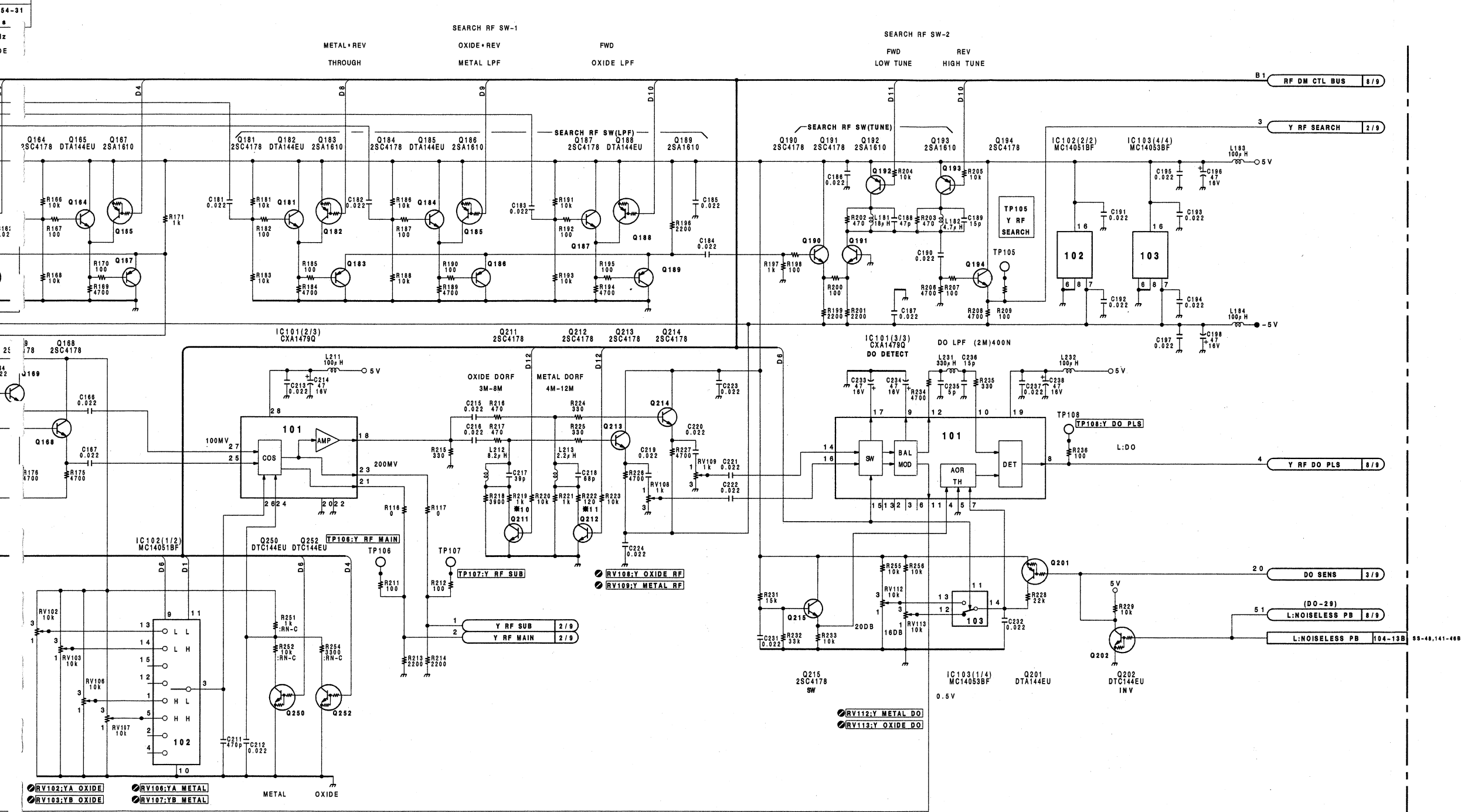
MARK	CHANGE INFORMATION	SERIAL NO.
*1	100 μ F/16V → 47 μ F/16V	EK;S/N10296-

VP-33BP (1-640-032-13,14)

TP1	D-1
TP2	F-1
TP101	D-1
TP102	C-1
TP103	D-1
TP105	C-4
TP106	B-4
TP107	A-4
TP108	D-6
TP201	B-4
TP202	D-1
TP204	C-1
TP205	C-3
TP401	F-1
TP402	F-1
TP403	F-1
TP406	F-4
TP407	F-4
TP408	H-6
TP501	G-4
TP502	H-1
TP504	H-2
TP505	G-3
TP701	N-3
TP702	N-4
TP703	M-6
TP704	N-6
TP705	N-6
TP706	N-6
TP707	P-6
TP708	P-6
TP709	K-6
TP710	J-6
TP711	M-6
TP712	M-4
TP713	M-6
TP714	K-4
TP715	K-1
TP716	K-1
TP717	L-1

VP-33BP(1/9);Y RF AGC,Y DO ENVELOPE DETECT





-444,510-3 MAIN RF ADJ

SUB RF

※10			
R219	JUC	EK	
PVW-2800	880	880	
PVW-2800	1k	880	

※11	REF NO.	JUC	EK
	R222	120	390

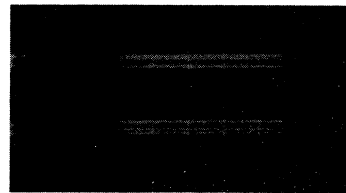
VP-33BP BOARD (1/9)

BOARD NO.1-640-032-13,14
PVW-2850P(EK);#10001-

VP-33BP (1-640-032-13,14)

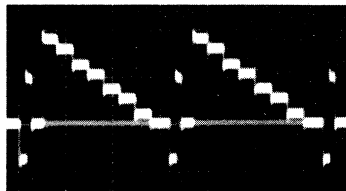
TP1 D-1
 TP2 F-1
 TP101 D-1
 TP102 C-1
 TP103 D-1
 TP105 C-4
 TP106 B-4
 TP107 A-4
 TP108 D-6
 TP201 B-4
 TP202 D-1
 TP204 C-1
 TP205 C-3
 TP401 F-1
 TP402 F-1
 TP403 F-1
 TP406 F-4
 TP407 F-4
 TP408 H-6
 TP501 G-4
 TP502 H-1
 TP504 H-2
 TP505 G-3
 TP701 N-3
 TP702 N-4
 TP703 M-6
 TP704 N-6
 TP705 N-6
 TP706 N-6
 TP707 P-6
 TP708 P-6
 TP709 K-6
 TP710 J-6
 TP711 M-6
 TP712 M-4
 TP713 M-6
 TP714 K-4
 TP715 K-1
 TP716 K-1
 TP717 L-1

① TP 201
PB



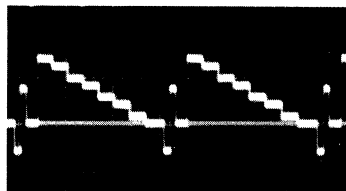
V: 200 mV/div
H: 2 ms/div

② TP 202
PB



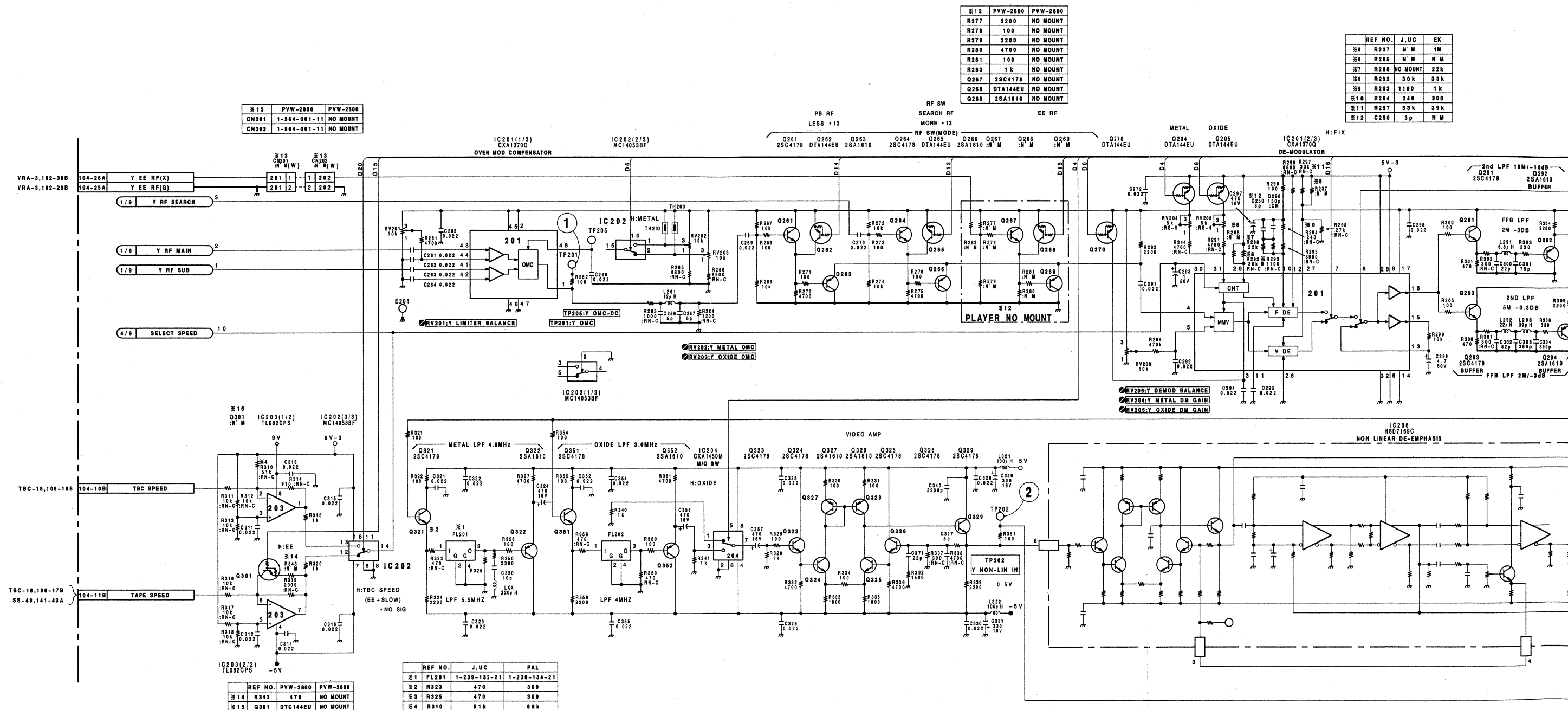
V: 200 mV/div
H: 20 μ s/div

③ TP 204
PB

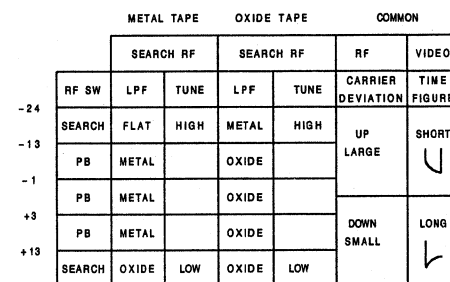


V: 500 mV/div
H: 20 μ s/div

VP-33BP(2/9);DE-MODULATOR,NON LINEAR DE-EMPHASIS

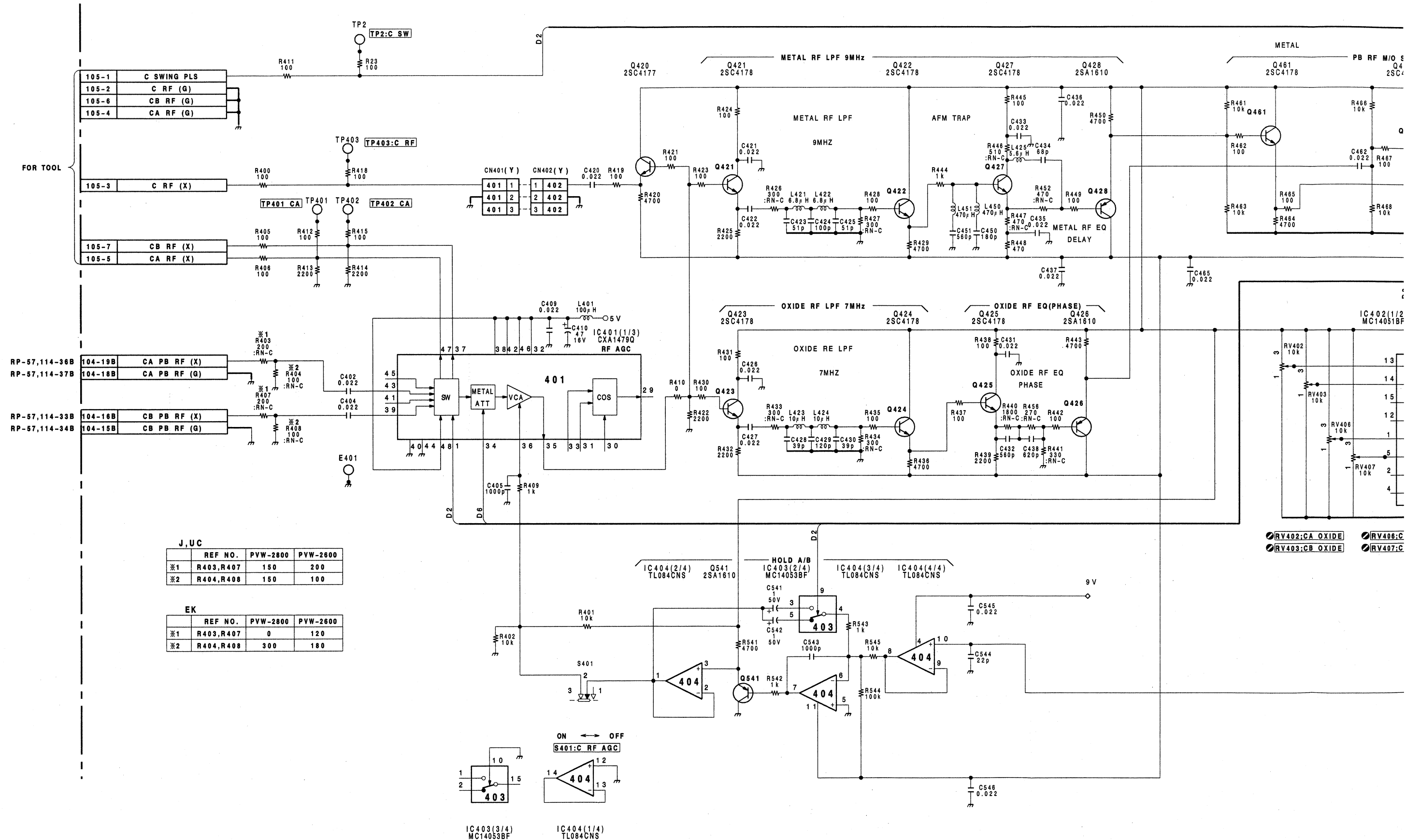


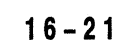
	REF NO.	J.U.C	EK
※5	R237	N' M	1M
※6	R285	N' M	N' M
※7	R288	NO MOUNT	22k
※8	R292	30 k	33 k
※9	R293	1100	1 k
※10	R294	240	300
※11	R297	33 k	39 k
※12	C250	3p	N' M



VP-33BP (1-640-032-13,14)

TP1	D-1
TP2	F-1
TP101	D-1
TP102	C-1
TP103	D-1
TP105	C-4
TP106	B-4
TP107	A-4
TP108	D-6
TP201	B-4
TP202	D-1
TP204	C-1
TP205	C-3
TP401	F-1
TP402	F-1
TP403	F-1
TP406	F-4
TP407	F-4
TP408	H-6
TP501	G-4
TP502	H-1
TP504	H-2
TP505	G-3
TP701	N-3
TP702	N-4
TP703	M-6
TP704	N-6
TP705	N-6
TP706	N-6
TP707	P-6
TP708	P-6
TP709	K-6
TP710	J-6
TP711	M-6
TP712	M-4
TP713	M-6
TP714	K-4
TP715	K-1
TP716	K-1
TP717	L-1

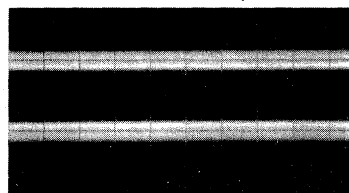




VP-33BP (1-640-032-13,14)

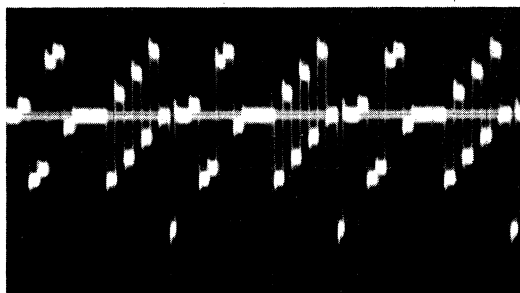
TP1 D-1
 TP2 F-1
 TP101 D-1
 TP102 C-1
 TP103 D-1
 TP105 C-4
 TP106 B-4
 TP107 A-4
 TP108 D-6
 TP201 B-4
 TP202 D-1
 TP204 C-1
 TP205 C-3
 TP401 F-1
 TP402 F-1
 TP403 F-1
 TP406 F-4
 TP407 F-4
 TP408 H-6
 TP501 G-4
 TP502 H-1
 TP504 H-2
 TP505 G-3
 TP701 N-3
 TP702 N-4
 TP703 M-6
 TP704 N-6
 TP705 N-6
 TP706 N-6
 TP707 P-6
 TP708 P-6
 TP709 K-6
 TP710 J-6
 TP711 M-6
 TP712 M-4
 TP713 M-6
 TP714 K-4
 TP715 K-1
 TP716 K-1
 TP717 L-1

① TP 501
 PB



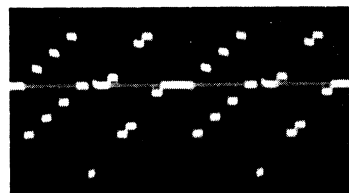
V : 200 mV/div
 H : 20 μ s/div

② TP 502
 PB



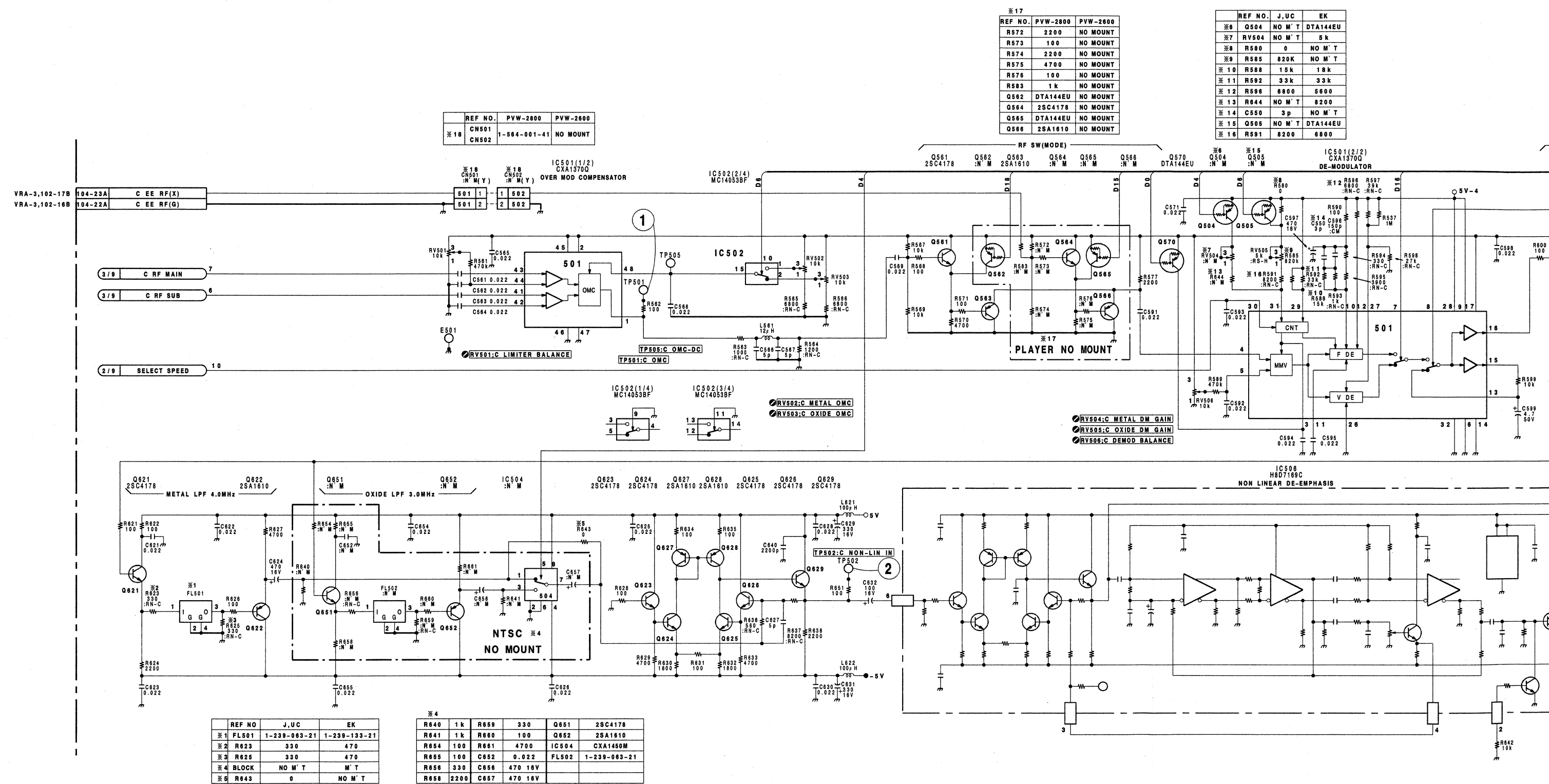
V : 200 mV/div
 H : 20 μ s/div

③ TP 504
 PB



V : 500 mV/div
 H : 20 μ s/div

VP-33BP(4/9);C DE-MODULATOR,NON LINEAR DE-EMPHASIS



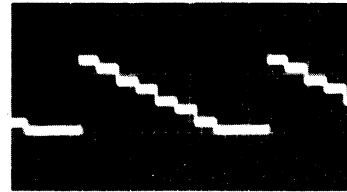
	REF NO.	J,UC	EK
※6	Q504	NO M' T	DTA144E
※7	RV504	NO M' T	45k
※8	R550	0	NO M' T
※9	R585	820K	NO M' T
※10	R588	15k	18k
※11	R592	33k	33k
※12	R596	5800	5800
※13	R644	NO M' T	8200
※14	C550	3p	NO M' T
※15	Q605	NO M' T	DTA144E
※16	R591	8200	6800

BOARD NO.1-640-032-13,14
PVW-2650P(EK);#10001-

VP-33BP (1-640-032-13,14)

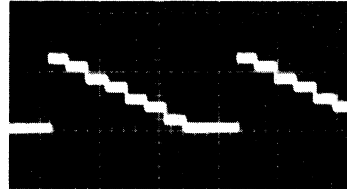
TP1 D-1
 TP2 F-1
 TP101 D-1
 TP102 C-1
 TP103 D-1
 TP105 C-4
 TP106 B-4
 TP107 A-4
 TP108 D-6
 TP201 B-4
 TP202 D-1
 TP204 C-1
 TP205 C-3
 TP401 F-1
 TP402 F-1
 TP403 F-1
 TP406 F-4
 TP407 F-4
 TP408 H-6
 TP501 G-4
 TP502 H-1
 TP504 H-2
 TP505 G-3
 TP701 N-3
 TP702 N-4
 TP703 M-6
 TP704 N-6
 TP705 N-6
 TP706 N-6
 TP707 P-6
 TP708 P-6
 TP709 K-6
 TP710 J-6
 TP711 M-6
 TP712 M-4
 TP713 M-6
 TP714 K-4
 TP715 K-1
 TP716 K-1
 TP717 L-1

① TP 701
 PB



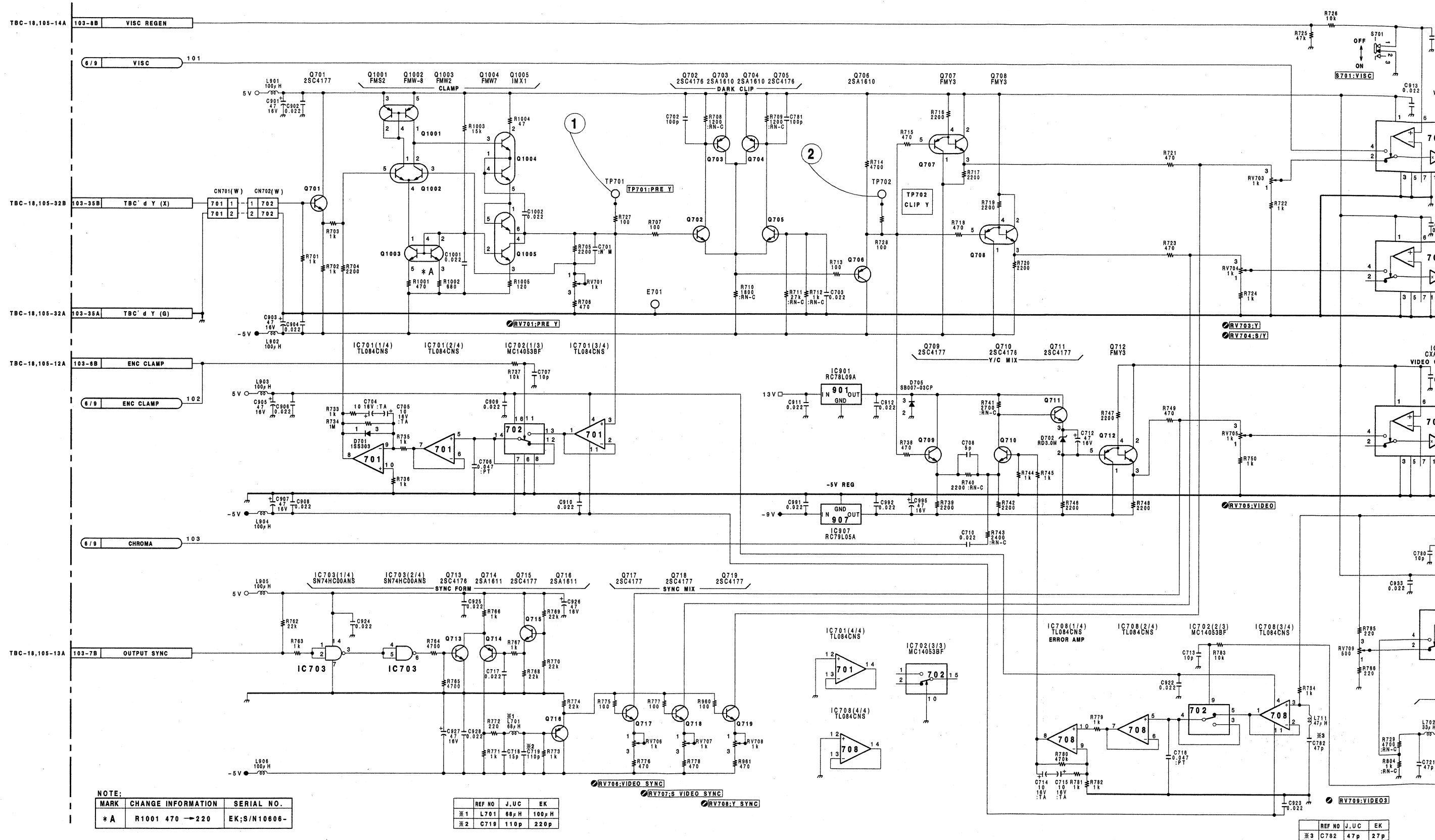
V : 1 V/div
 H : 20 μ s/div

② TP 702
 PB



V : 1 V/div
 H : 20 μ s/div

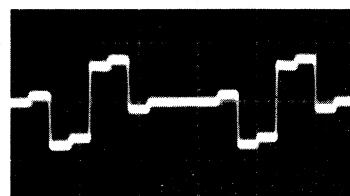
VP-33BP(5/9);COMPOSITE OUT DRIVER



VP-33BP (1-640-032-13,14)

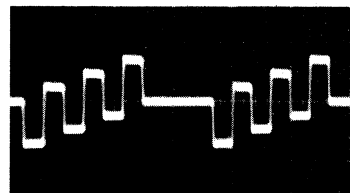
TP1 D-1
 TP2 F-1
 TP101 D-1
 TP102 C-1
 TP103 D-1
 TP105 C-4
 TP106 B-4
 TP107 A-4
 TP108 D-6
 TP201 B-4
 TP202 D-1
 TP204 C-1
 TP205 C-3
 TP401 F-1
 TP402 F-1
 TP403 F-1
 TP406 F-4
 TP407 F-4
 TP408 H-6
 TP501 G-4
 TP502 H-1
 TP504 H-2
 TP505 G-3
 TP701 N-3
 TP702 N-4
 TP703 M-6
 TP704 N-6
 TP705 N-6
 TP706 N-6
 TP707 P-6
 TP708 P-6
 TP709 K-6
 TP710 J-6
 TP711 M-6
 TP712 M-4
 TP713 M-6
 TP714 K-4
 TP715 K-1
 TP716 K-1
 TP717 L-1

① TP 709
 PB



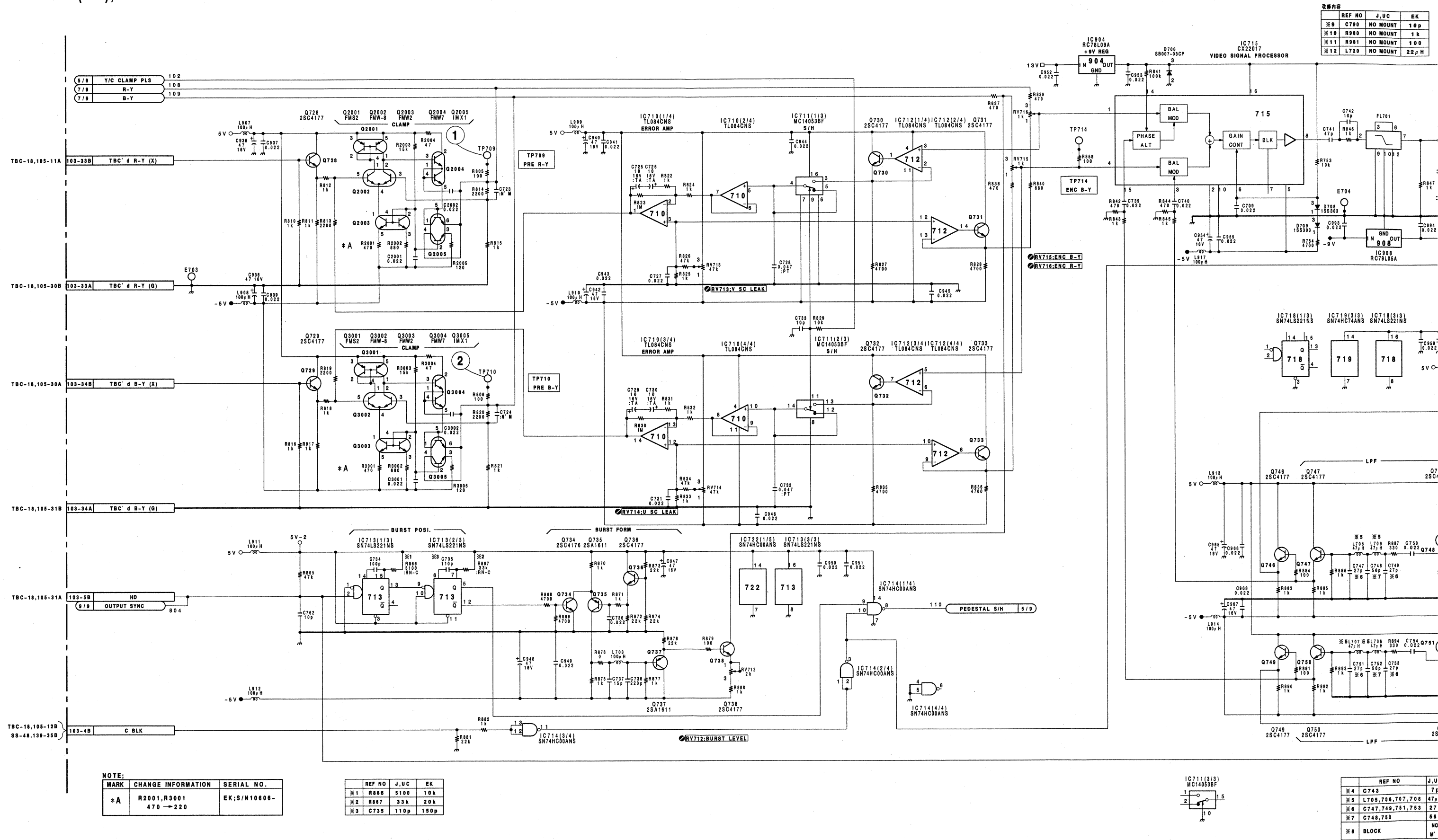
V: 1 V/div
 H: 20 μ s/div

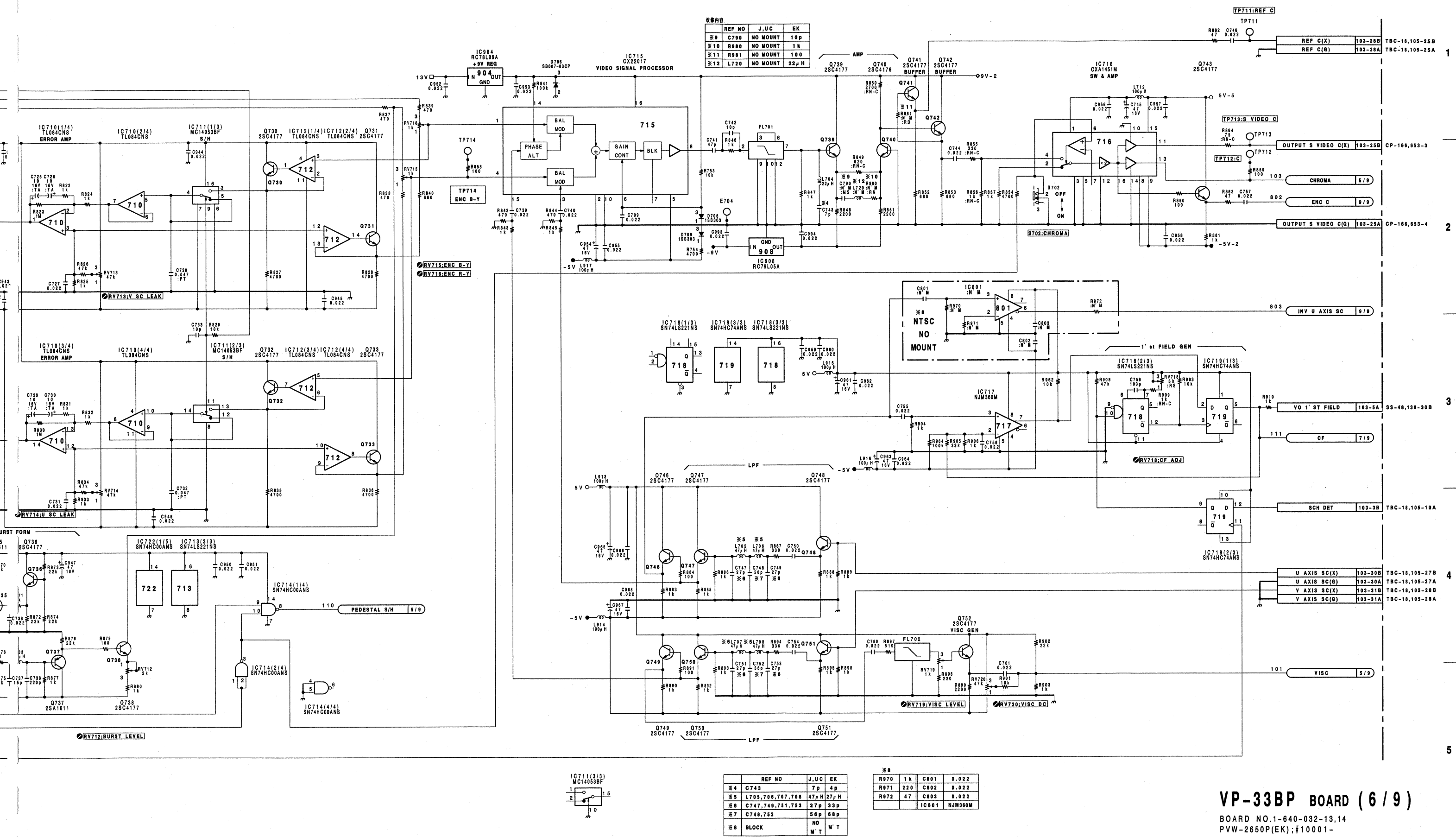
② TP 710
 PB



V: 1 V/div
 H: 20 μ s/div

VP-33BP(6/9);ENCODER

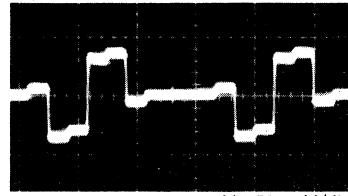




VP-33BP (1-640-032-13,14)

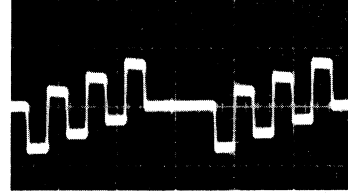
TP1	D-1
TP2	F-1
TP101	D-1
TP102	C-1
TP103	D-1
TP105	C-4
TP106	B-4
TP107	A-4
TP108	D-6
TP201	B-4
TP202	D-1
TP204	C-1
TP205	C-3
TP401	F-1
TP402	F-1
TP403	F-1
TP406	F-4
TP407	F-4
TP408	H-6
TP501	G-4
TP502	H-1
TP504	H-2
TP505	G-3
TP701	N-3
TP702	N-4
TP703	M-6
TP704	N-6
TP705	N-6
TP706	N-6
TP707	P-6
TP708	P-6
TP709	K-6
TP710	J-6
TP711	M-6
TP712	M-4
TP713	M-6
TP714	K-4
TP715	K-1
TP716	K-1
TP717	L-1

① TP 715
PB



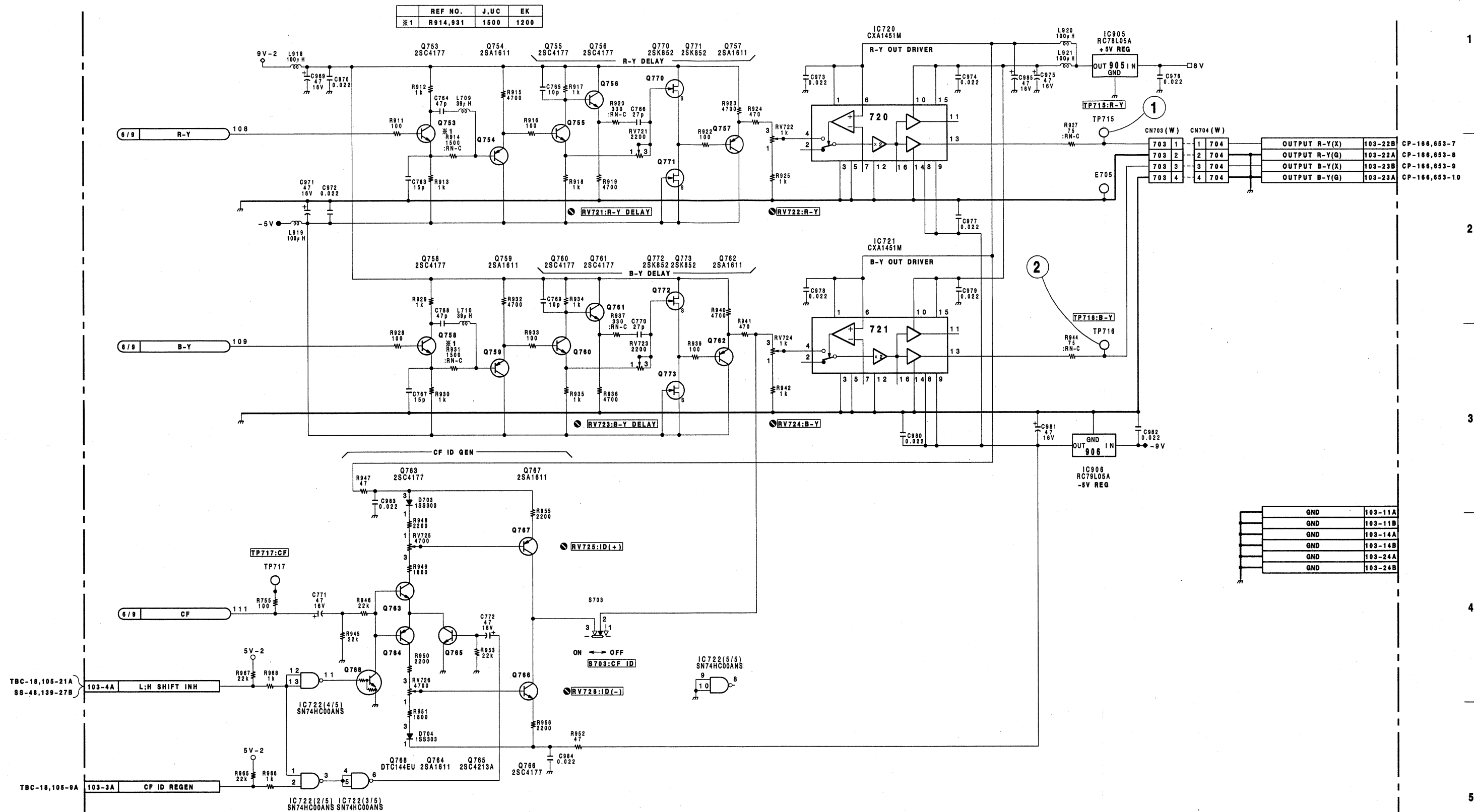
V: 500 mV/div
H: 20 μ s/div

② TP 716
PB



V: 500 mV/div
H: 20 μ s/div

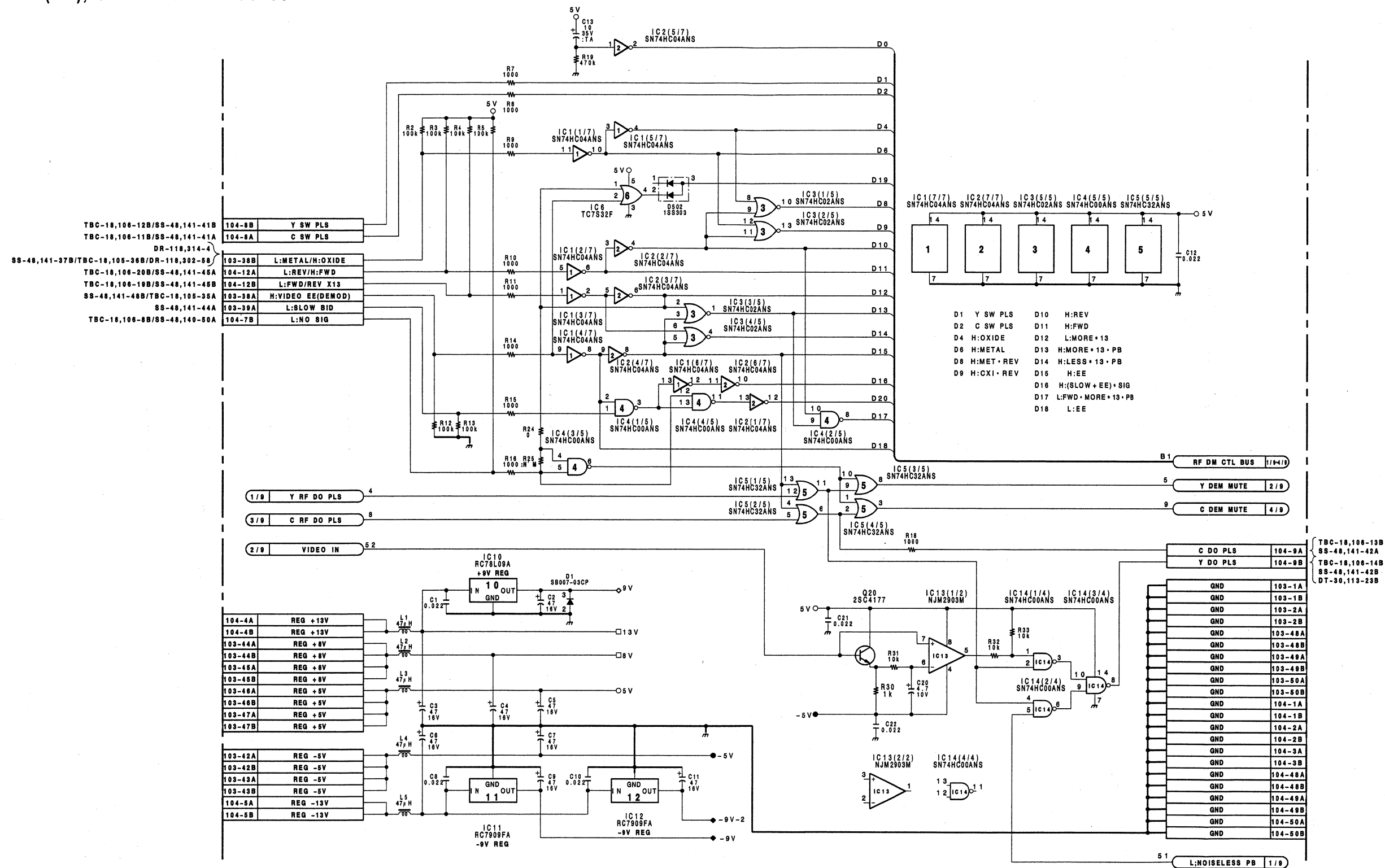
VP-33BP(7/9);R-Y/B-Y OUT DRIVER



VP-33BP (1-640-032-13,14)

TP1	D-1
TP2	F-1
TP101	D-1
TP102	C-1
TP103	D-1
TP105	C-4
TP106	B-4
TP107	A-4
TP108	D-6
TP201	B-4
TP202	D-1
TP204	C-1
TP205	C-3
TP401	F-1
TP402	F-1
TP403	F-1
TP406	F-4
TP407	F-4
TP408	H-6
TP501	G-4
TP502	H-1
TP504	H-2
TP505	G-3
TP701	N-3
TP702	N-4
TP703	M-6
TP704	N-6
TP705	N-6
TP706	N-6
TP707	P-6
TP708	P-6
TP709	K-6
TP710	J-6
TP711	M-6
TP712	M-4
TP713	M-6
TP714	K-4
TP715	K-1
TP716	K-1
TP717	L-1

VP-33BP(8/9);Y/C PB MODE PROCESS



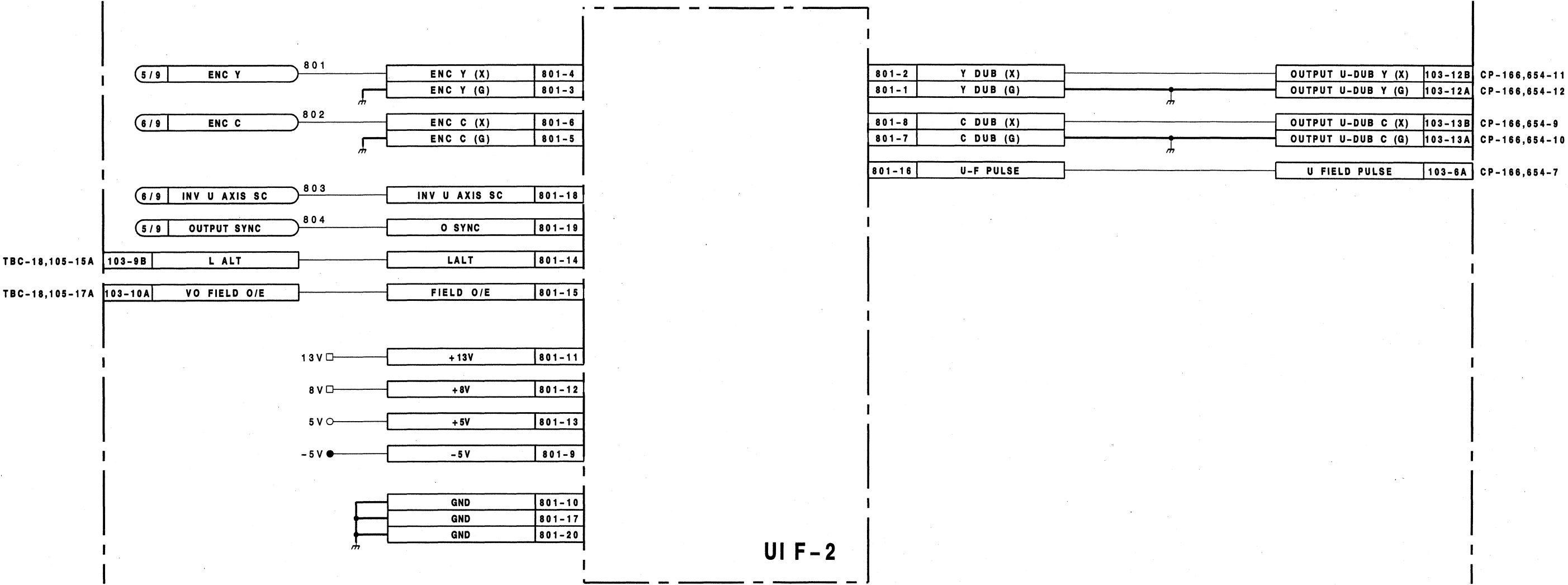
VP-33BP BOARD (8 / 9)

BOARD NO.1-640-032-13,14
PVW-2650P(EK);#10001-

VP-33BP (1-640-032-13,14)

- TP1 D-1
- TP2 F-1
- TP101 D-1
- TP102 C-1
- TP103 D-1
- TP105 C-4
- TP106 B-4
- TP107 A-4
- TP108 D-6
- TP201 B-4
- TP202 D-1
- TP204 C-1
- TP205 C-3
- TP401 F-1
- TP402 F-1
- TP403 F-1
- TP406 F-4
- TP407 F-4
- TP408 H-6
- TP501 G-4
- TP502 H-1
- TP504 H-2
- TP505 G-3
- TP701 N-3
- TP702 N-4
- TP703 M-6
- TP704 N-6
- TP705 N-6
- TP706 N-6
- TP707 P-6
- TP708 P-6
- TP709 K-6
- TP710 J-6
- TP711 M-6
- TP712 M-4
- TP713 M-6
- TP714 K-4
- TP715 K-1
- TP716 K-1
- TP717 L-1

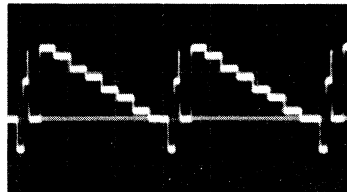
VP-33BP(9/9);U-DUB INTERFACE



TBC-18P(1-640-033-13)

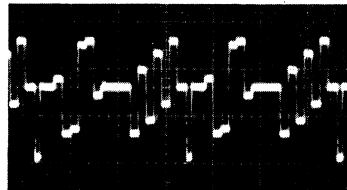
TP100 A-4
 TP101 C-4
 TP200 A-4
 TP201 B-4
 TP300 A-3
 TP301 B-1
 TP302 C-2
 TP303 D-1
 TP304 B-1
 TP400 C-5
 TP401 C-7
 TP402 B-7
 TP403 B-7
 TP500 L-1
 TP501 L-1
 TP502 M-1
 TP700 N-7
 TP701 N-4
 TP702 N-5
 TP703 P-5
 TP704 M-6
 TP705 N-7

① TP 101
PB



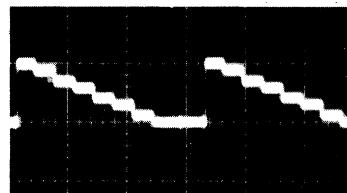
V: 1 V/div
H: 20 μ s/div

② TP 201
PB



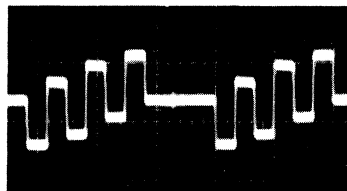
V: 1 V/div
H: 20 μ s/div

③ TP 500
PB



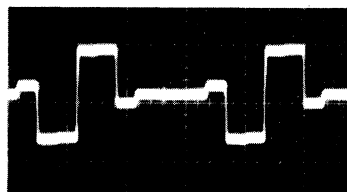
V: 500 mV/div
H: 20 μ s/div

④ TP 501
PB



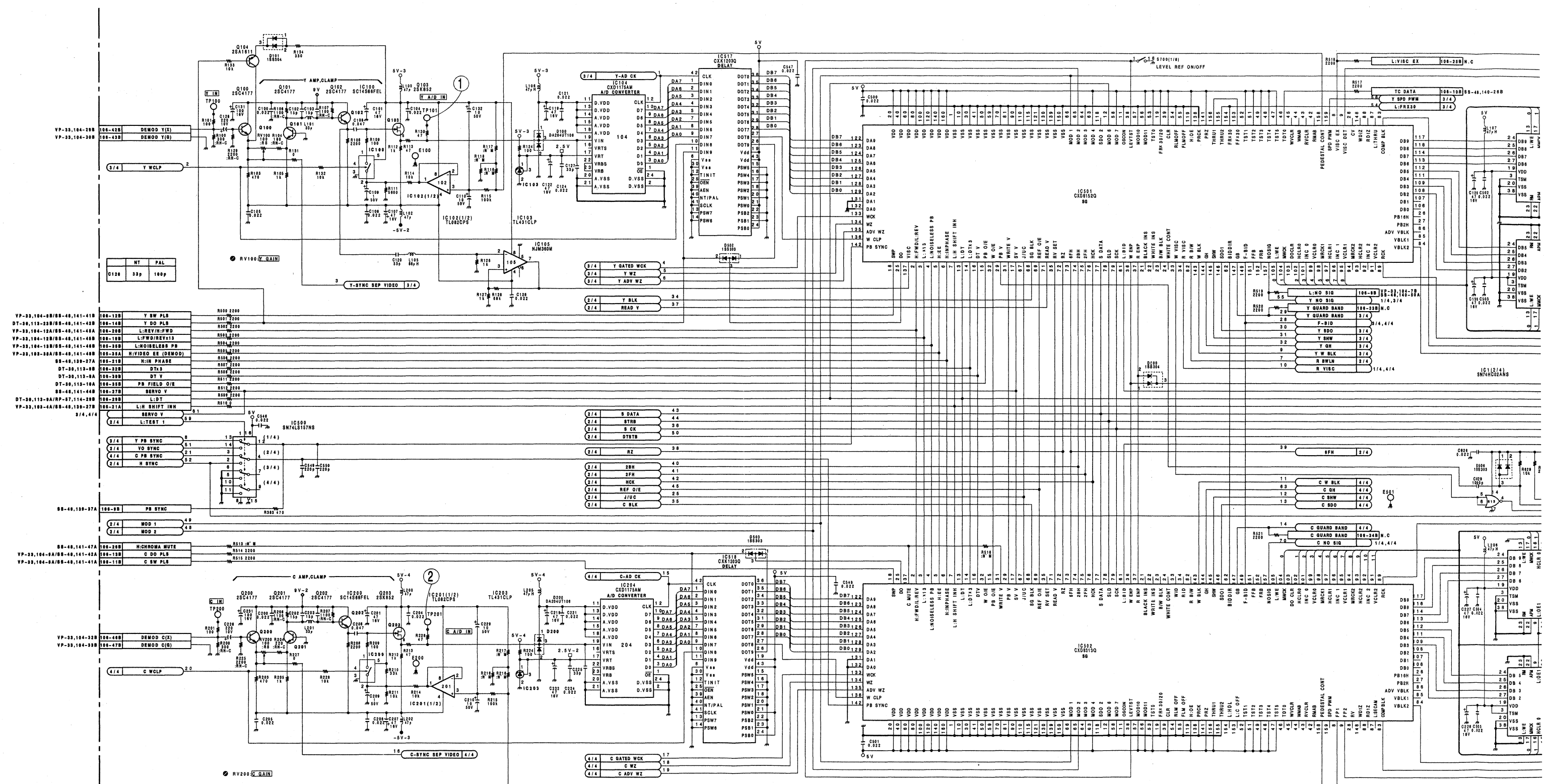
V: 500 mV/div
H: 20 μ s/div

⑤ TP 502
PB

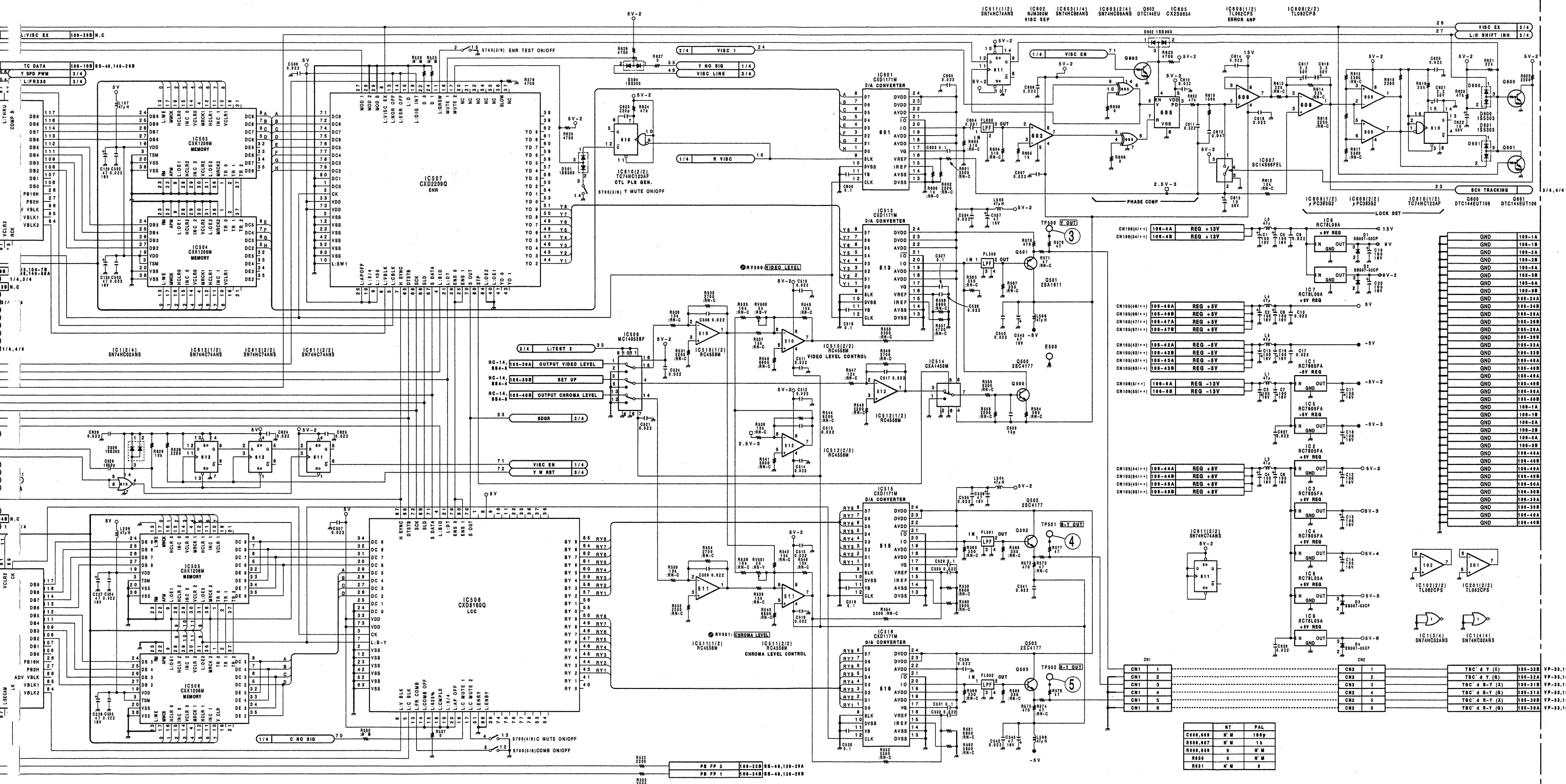


V: 500 mV/div
H: 20 μ s/div

TBC-18P(1/4);TIME BASE CORRECTOR, CTDM(EXPAND)



TBC-18P(1/4) TBC-18P(1/4)



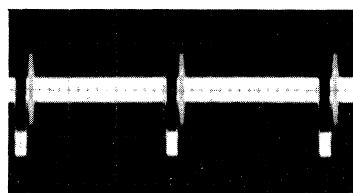
TBC-18P BOARD (1 / 4)

BOARD NO.1-640-033-13
PVW-2650P(EK);#10001-

TBC-18P(1-640-033-13)

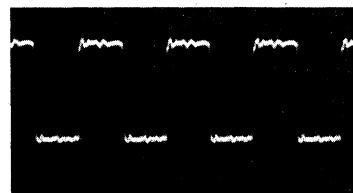
TP100 A-4
 TP101 C-4
 TP200 A-4
 TP201 B-4
 TP300 A-3
 TP301 B-1
 TP302 C-2
 TP303 D-1
 TP304 B-1
 TP400 C-5
 TP401 C-7
 TP402 B-7
 TP403 B-7
 TP500 L-1
 TP501 L-1
 TP502 M-1
 TP700 N-7
 TP701 N-4
 TP702 N-5
 TP703 P-5
 TP704 M-6
 TP705 N-7

① TP 700
 ② TP 705
 PB



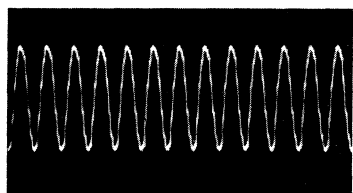
V: 500 mV/div
 H: 20 μ s/div

③ TP 701
 PB



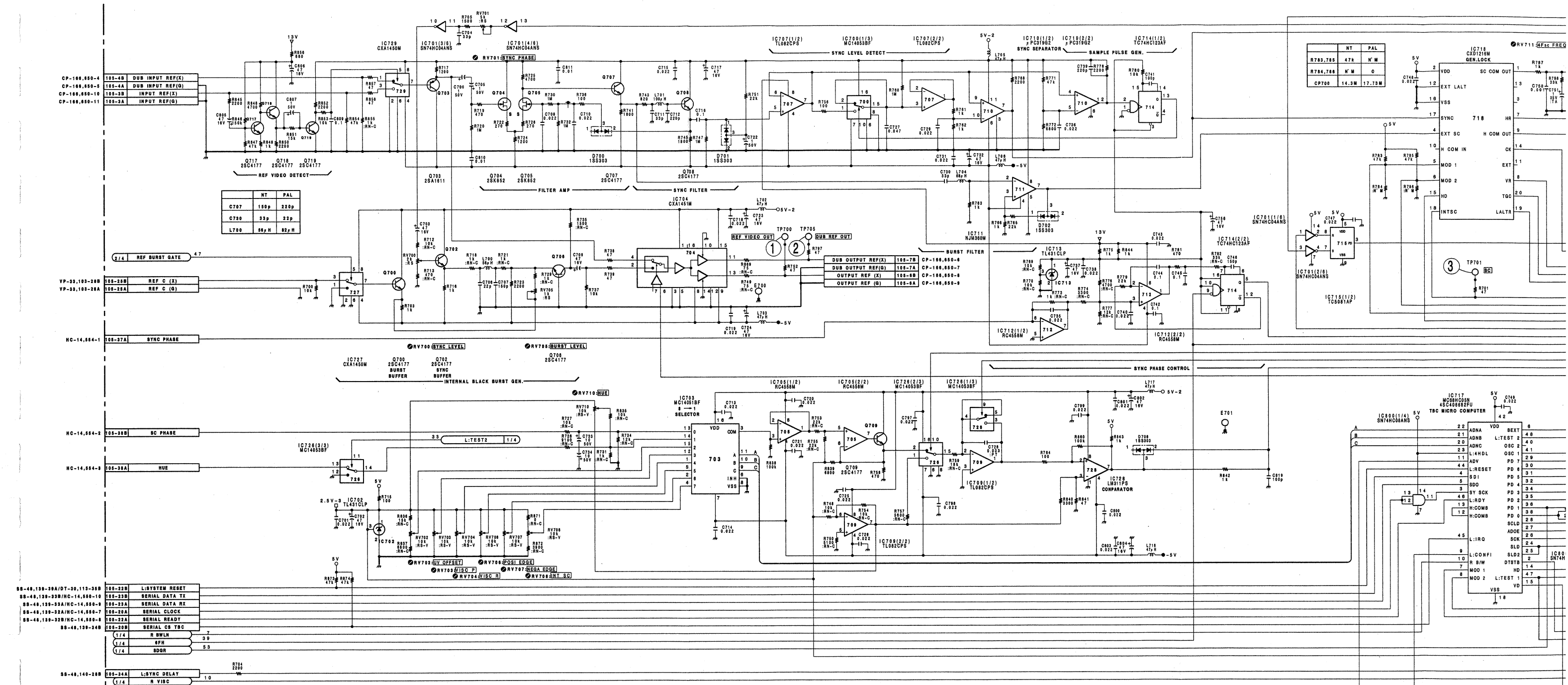
V: 2 V/div
 H: 100 ns/div

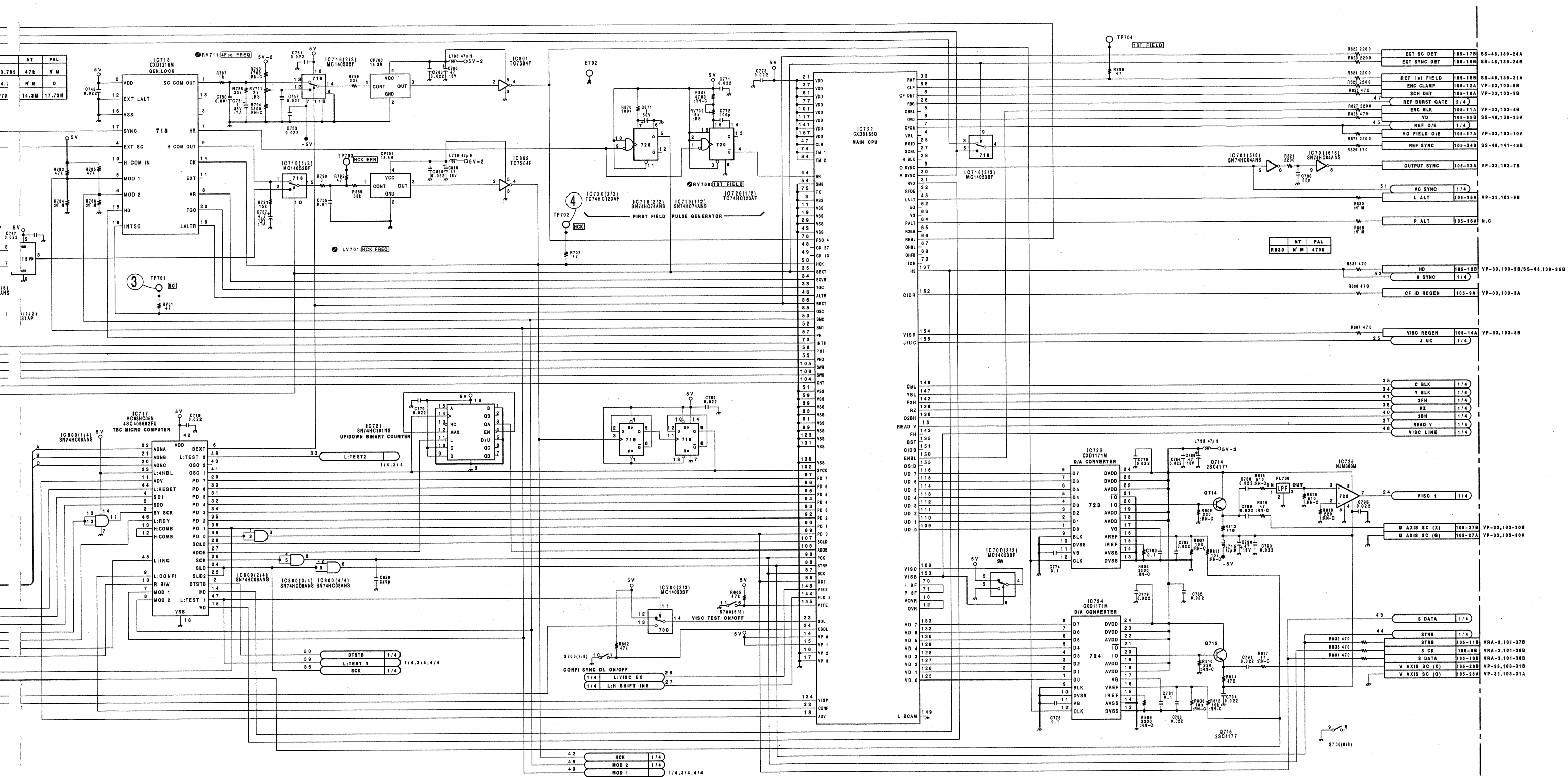
④ TP 702
 PB



V: 2 V/div
 H: 100 ns/div

- 8P(2/4);TIME BASE CORRECTOR





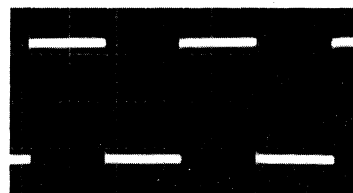
TBC-18P BOARD (2 / 4)

BOARD NO.1-640-033-13
PVW-2650P(EK);#10001-

TBC-18P(1-640-033-13)

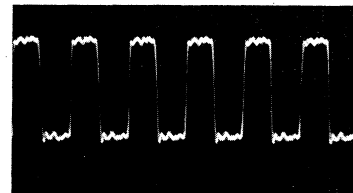
TP100 A-4
TP101 C-4
TP200 A-4
TP201 B-4
TP300 A-3
TP301 B-1
TP302 C-2
TP303 D-1
TP304 B-1
TP400 C-5
TP401 C-7
TP402 B-7
TP403 B-7
TP500 L-1
TP501 L-1
TP502 M-1
TP700 N-7
TP701 N-4
TP702 N-5
TP703 P-5
TP704 M-6
TP705 N-7

① TP 303
PB



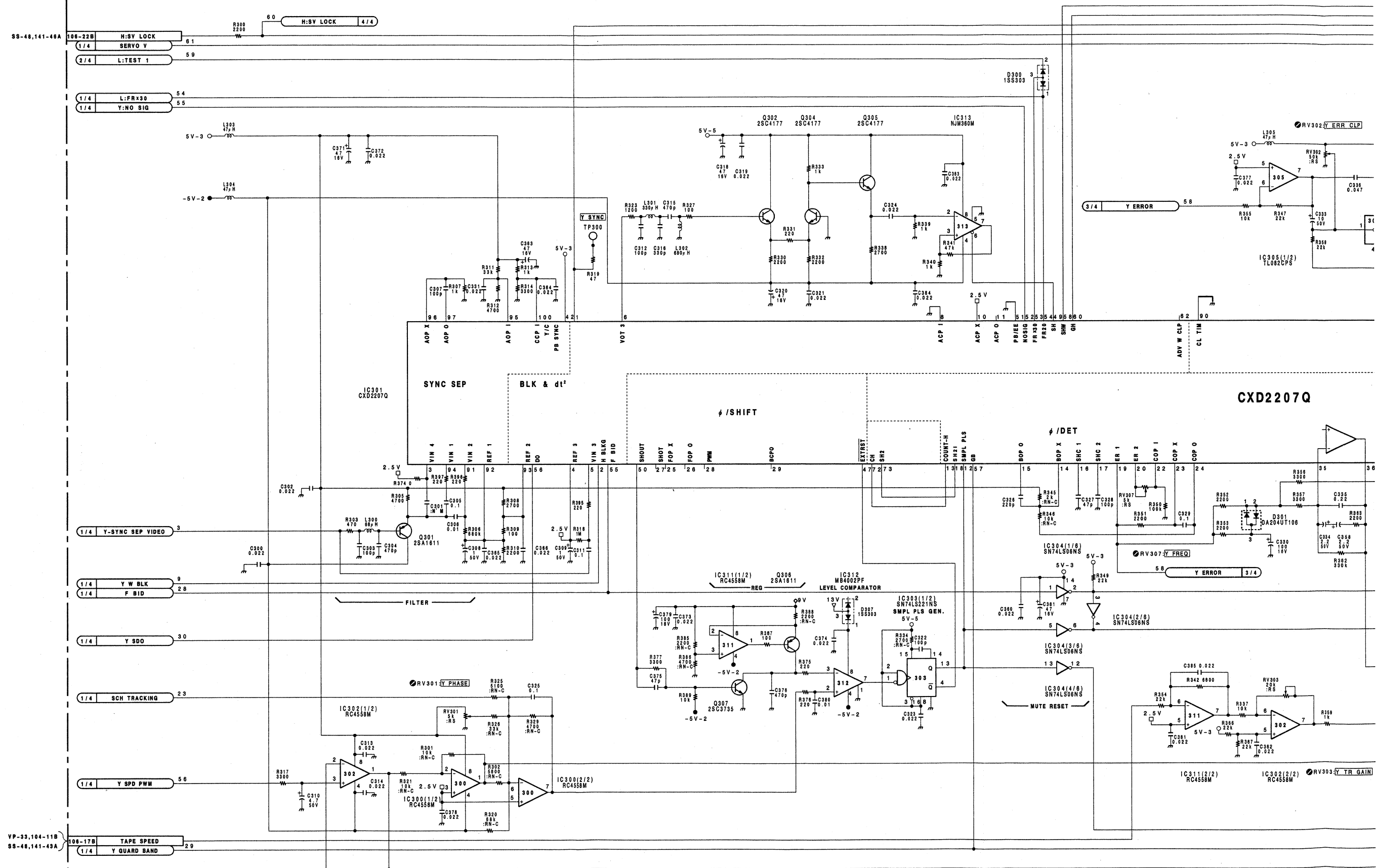
V : 2 V/div
H : 20 μ s/div

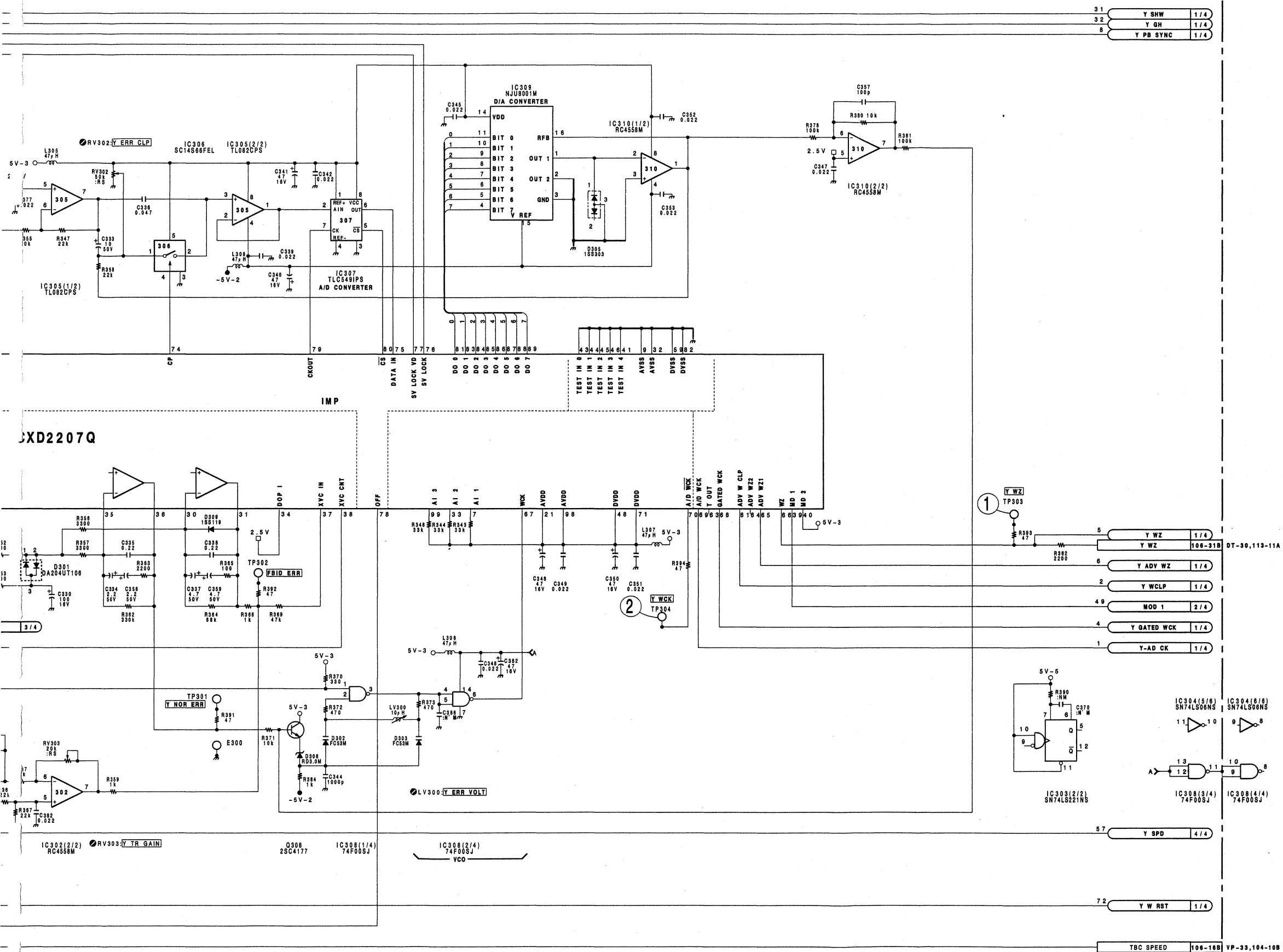
② TP 304
PB



V : 2 V/div
H : 50 ns/div

TBC-18P(3/4); TIME BASE CORRECTOR(Y-WRITE CLOCK BLOCK)



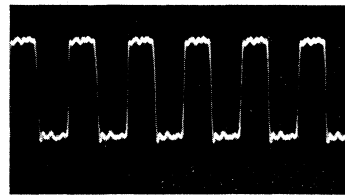


TBC-18P BOARD (3/4)
 BOARD NO.1-640-033-13
 PVW-2650P(EK);#10001-

TBC-18P(1-640-033-13)

TP100	A-4
TP101	C-4
TP200	A-4
TP201	B-4
TP300	A-3
TP301	B-1
TP302	C-2
TP303	D-1
TP304	B-1
TP400	C-5
TP401	C-7
TP402	B-7
TP403	B-7
TP500	L-1
TP501	L-1
TP502	M-1
TP700	N-7
TP701	N-4
TP702	N-5
TP703	P-5
TP704	M-6
TP705	N-7

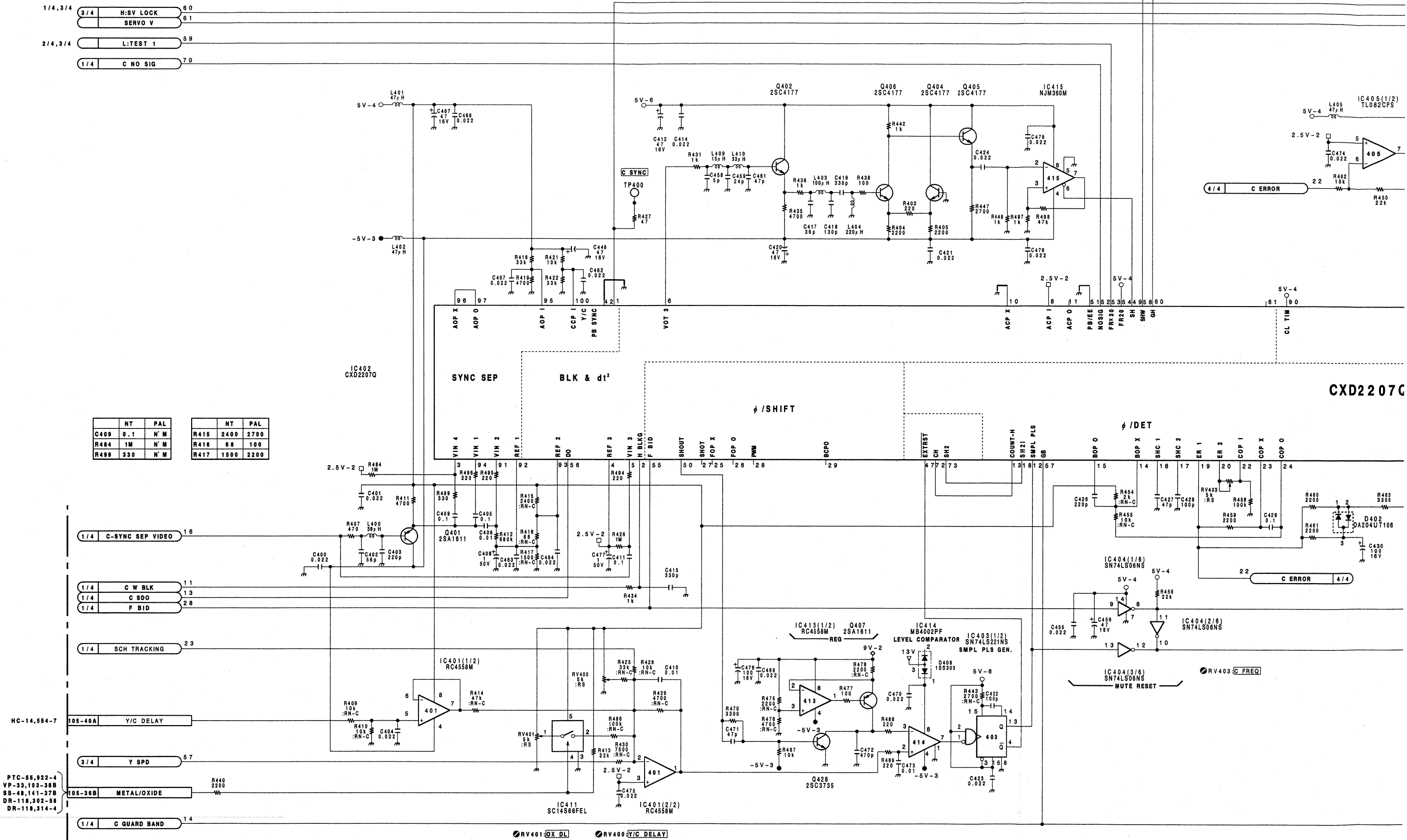
① TP 403
PB

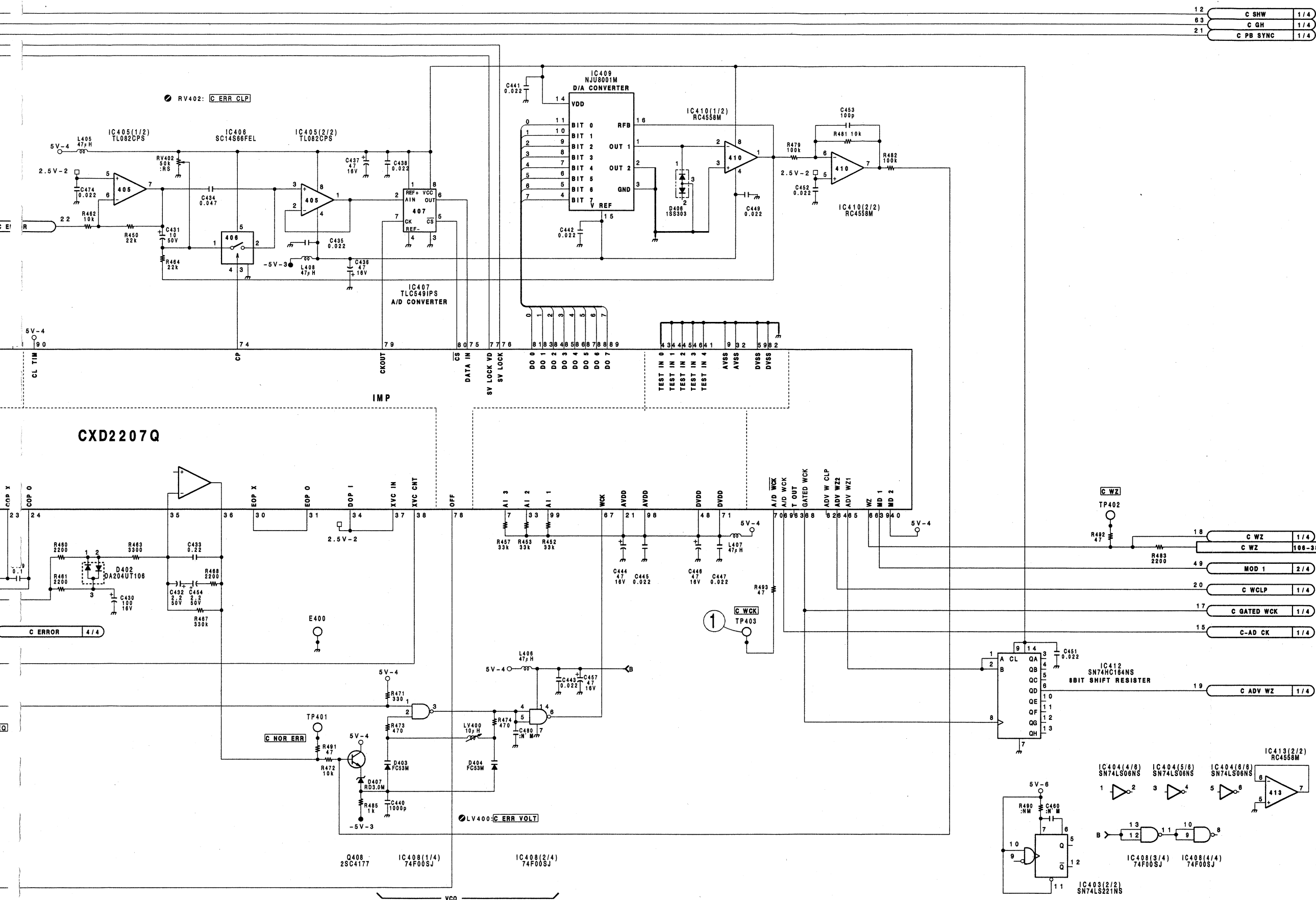


V : 2 V/div

H : 50 ns/div

TBC-18P(4/4);TIME BASE CORRECTOR (C-WRITE CLOCK BLOCK)

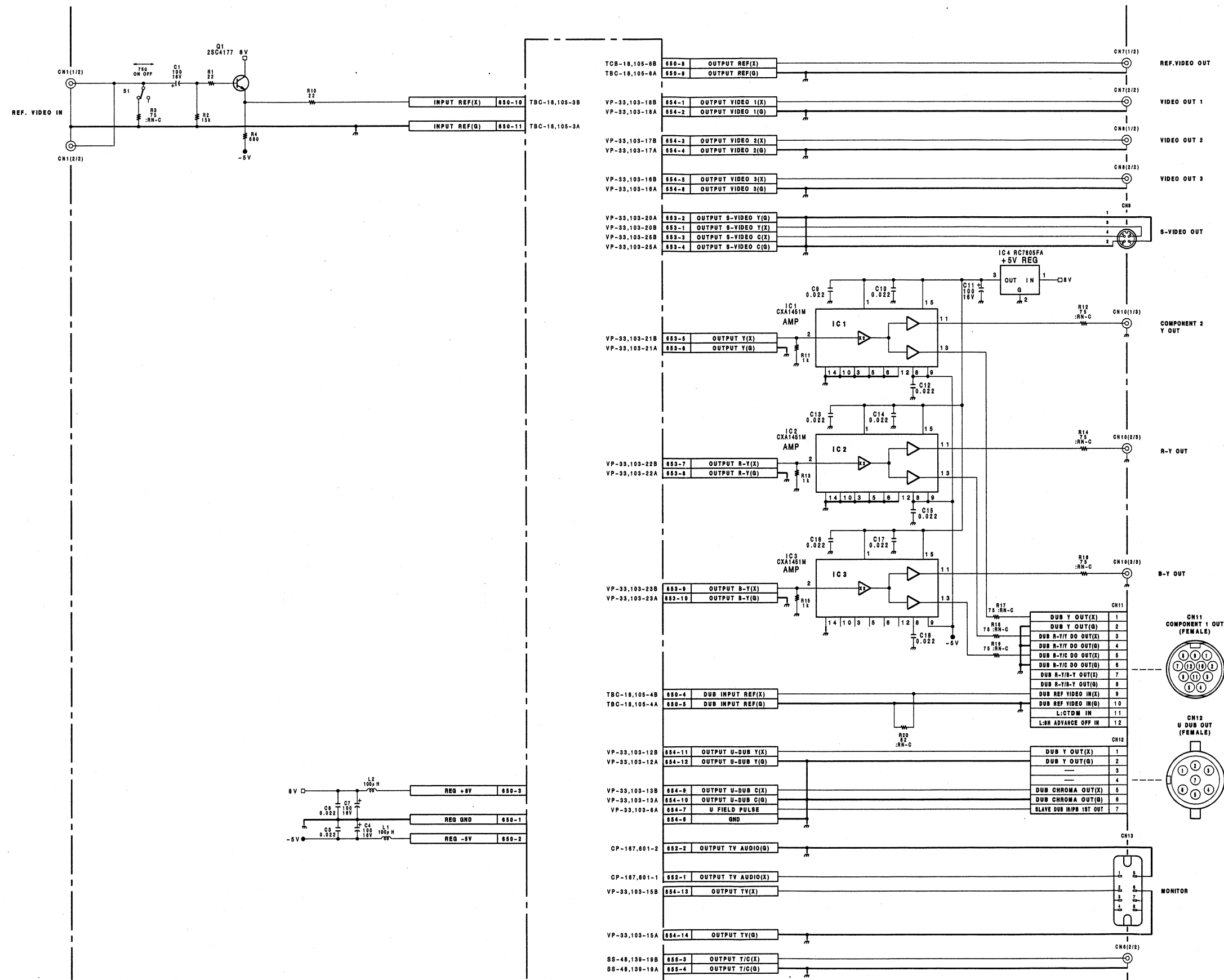




DT-30,113-11B

TBC-18P BOARD (4/4)
BOARD NO.1-640-033-13
PVW-2650P(EK);#10001-

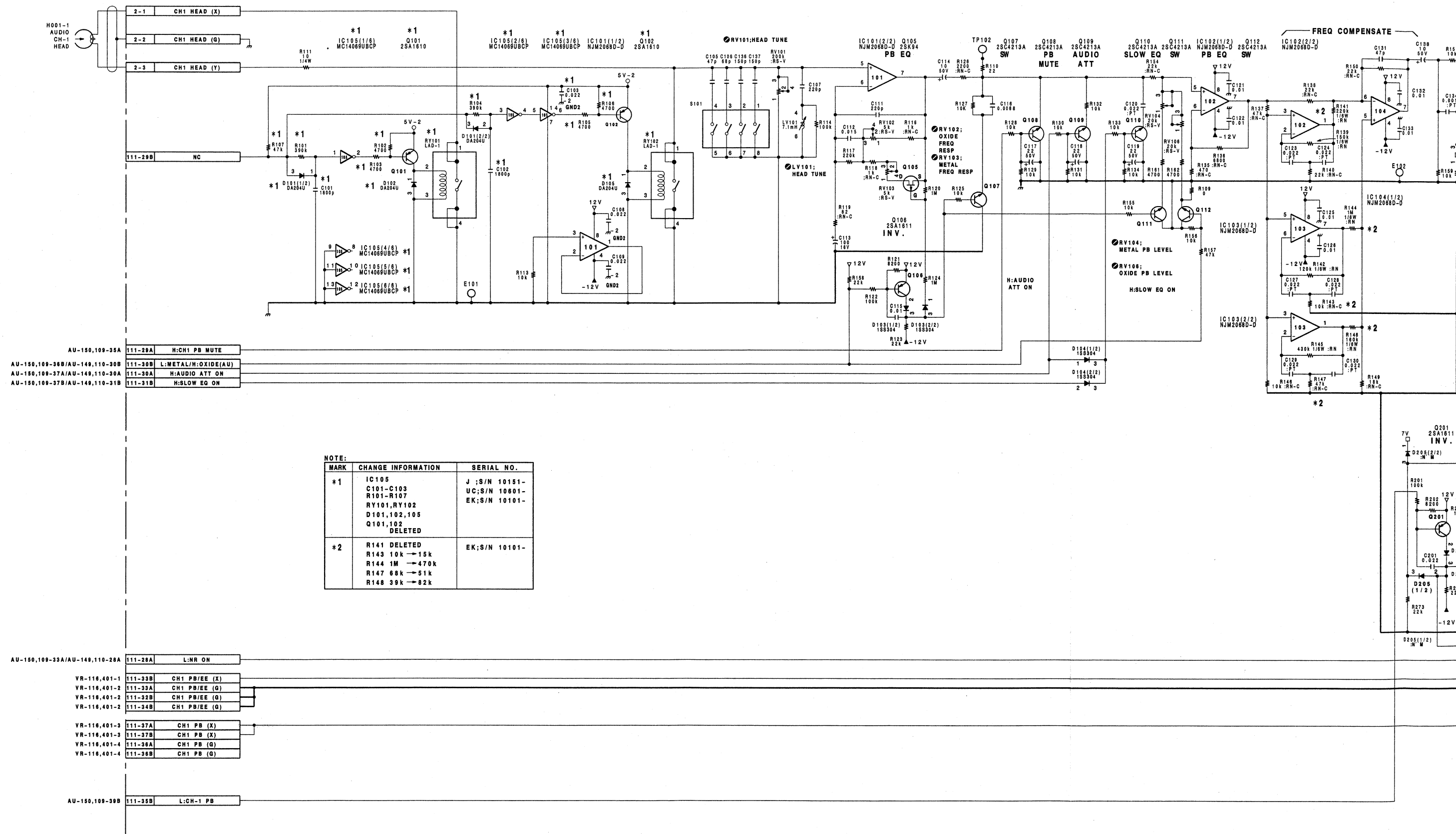
CP-166A;OUTPUT CONNECTOR,COMPONENT OUT DRIVER

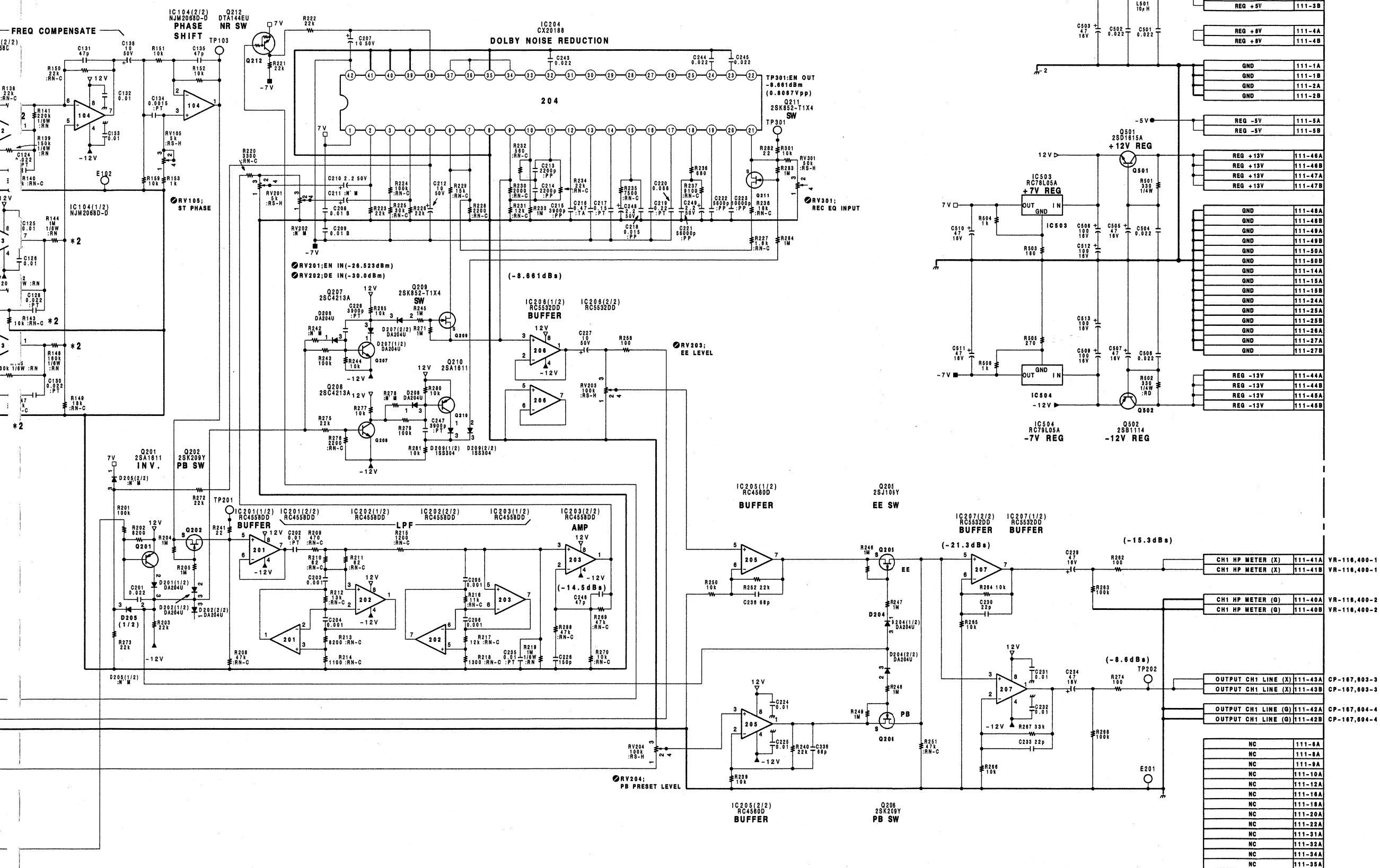


AU-148AP(1-640-035-22)

TP102	A-1
TP103	E-3
TP104	C-2
TP105	C-2
TP201	E-3
TP202	C-6
TP301	E-4

AU-148AP;AUDIO CH-1 PROCESS,DOLBY SYSTEM





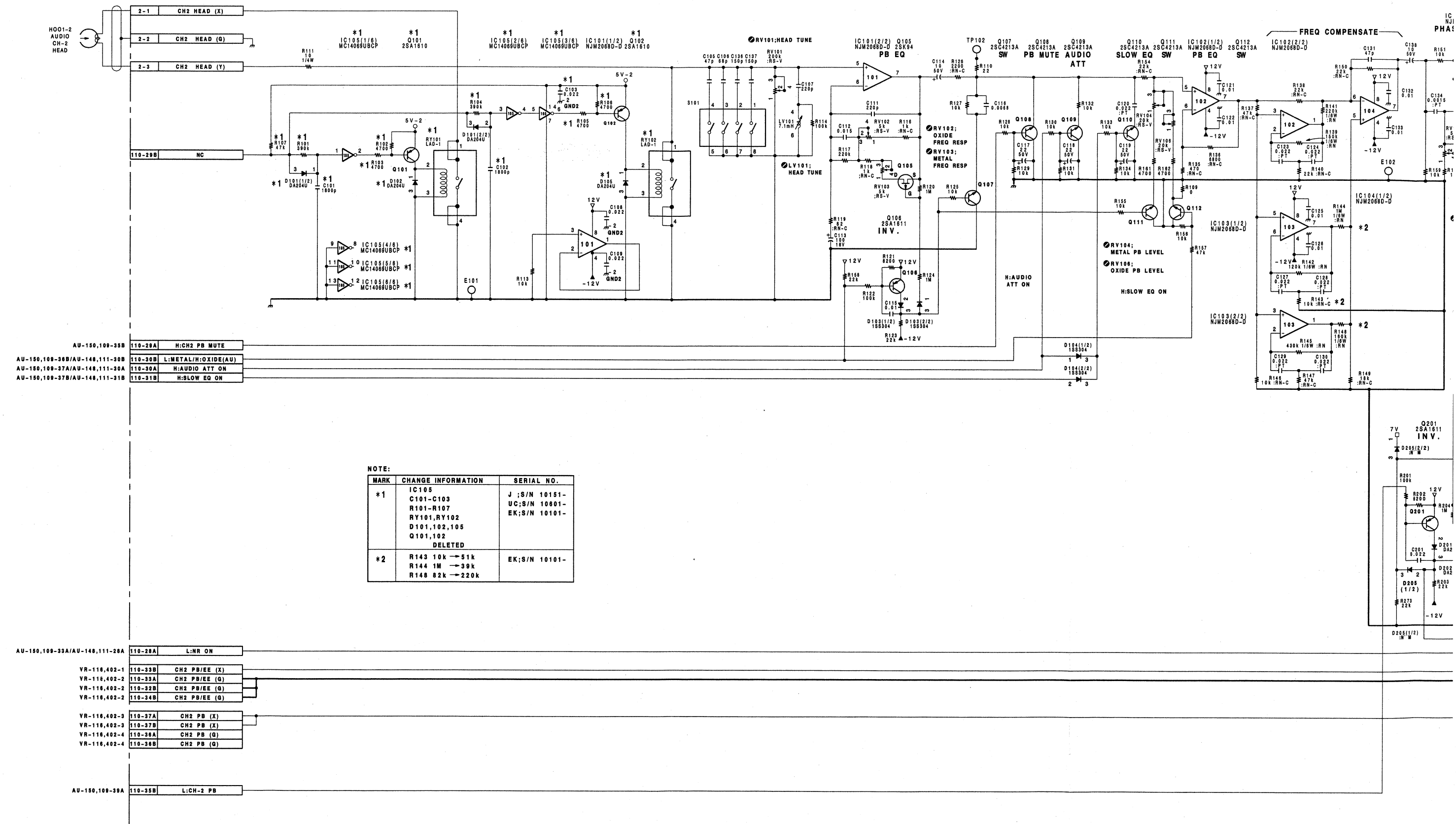
AU-148AP BOARD

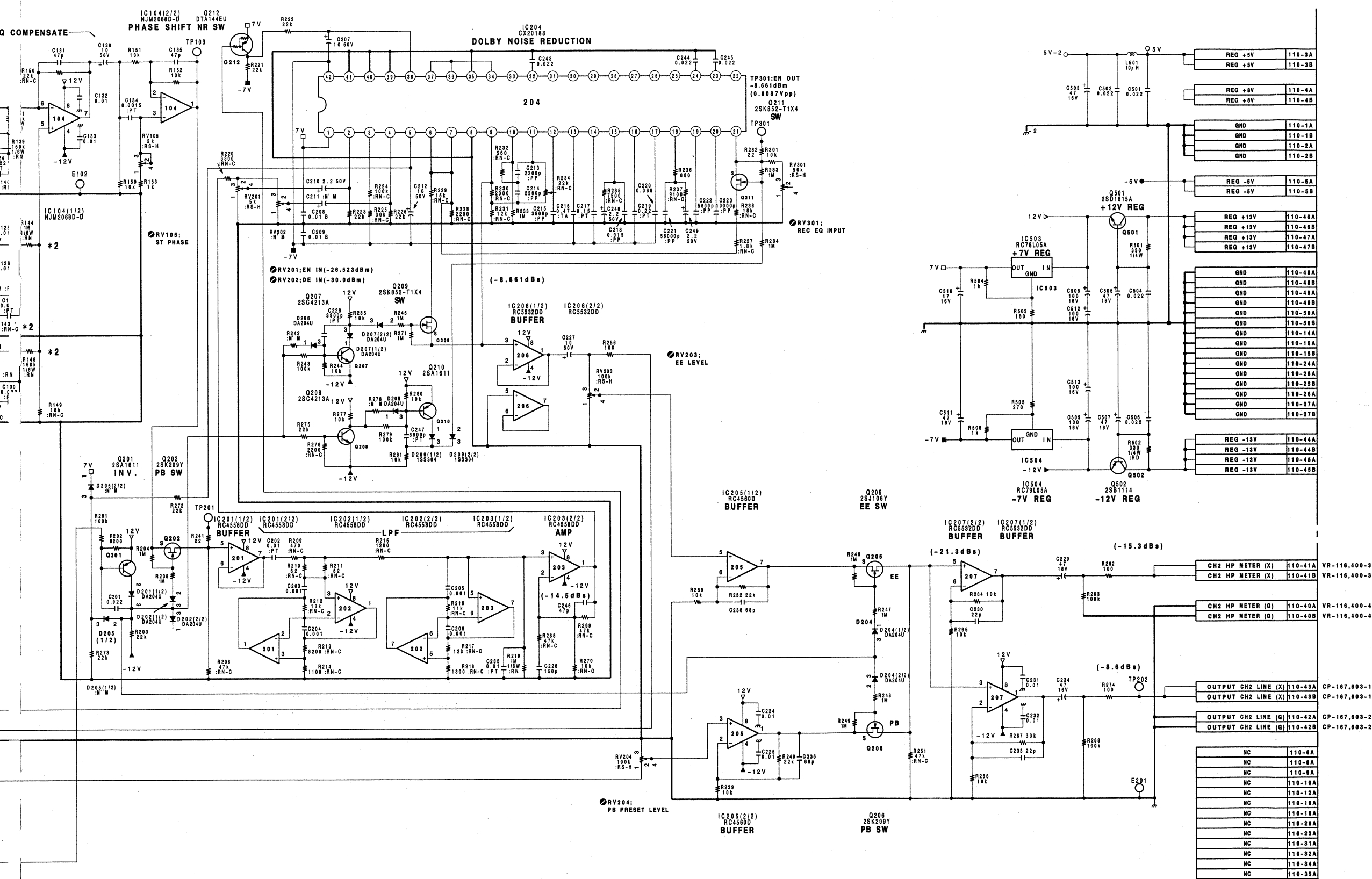
BOARD NO.1-640-035-22
PVW-2650P(EK);#10001-

AU-149AP(1-640-036-22)

TP102	A-1
TP103	E-3
TP104	C-2
TP105	C-2
TP201	E-3
TP202	C-6
TP301	E-4

AU-149AP;AUDIO CH-2 PROCESS,DOLBY SYSTEM



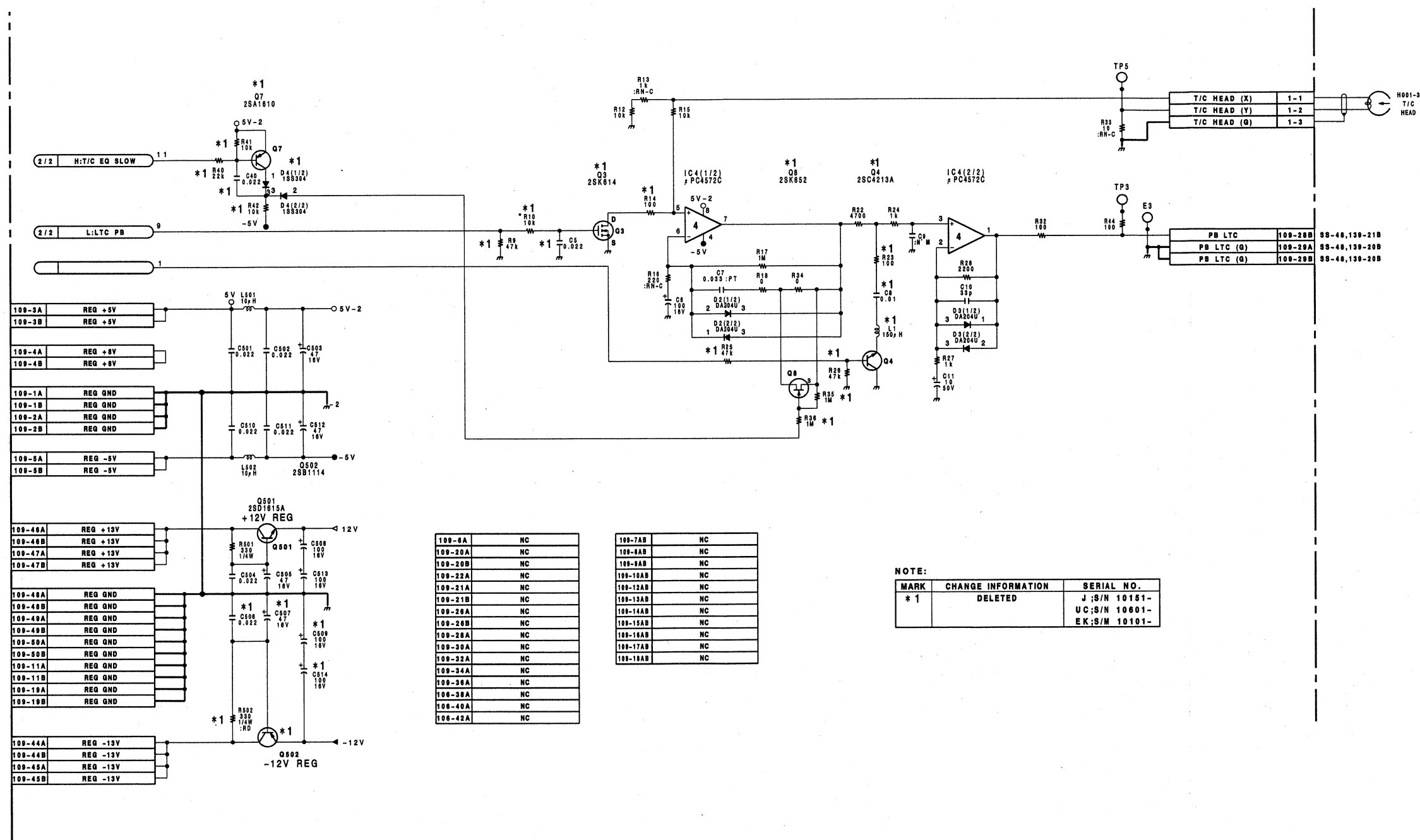


AU-149AP BOARD

BOARD NO.1-640-035-22
PVW-2650P(EK) ; #10001-

AU-150A(1-640-037-22)

TP3	B-3
TP5	B-2



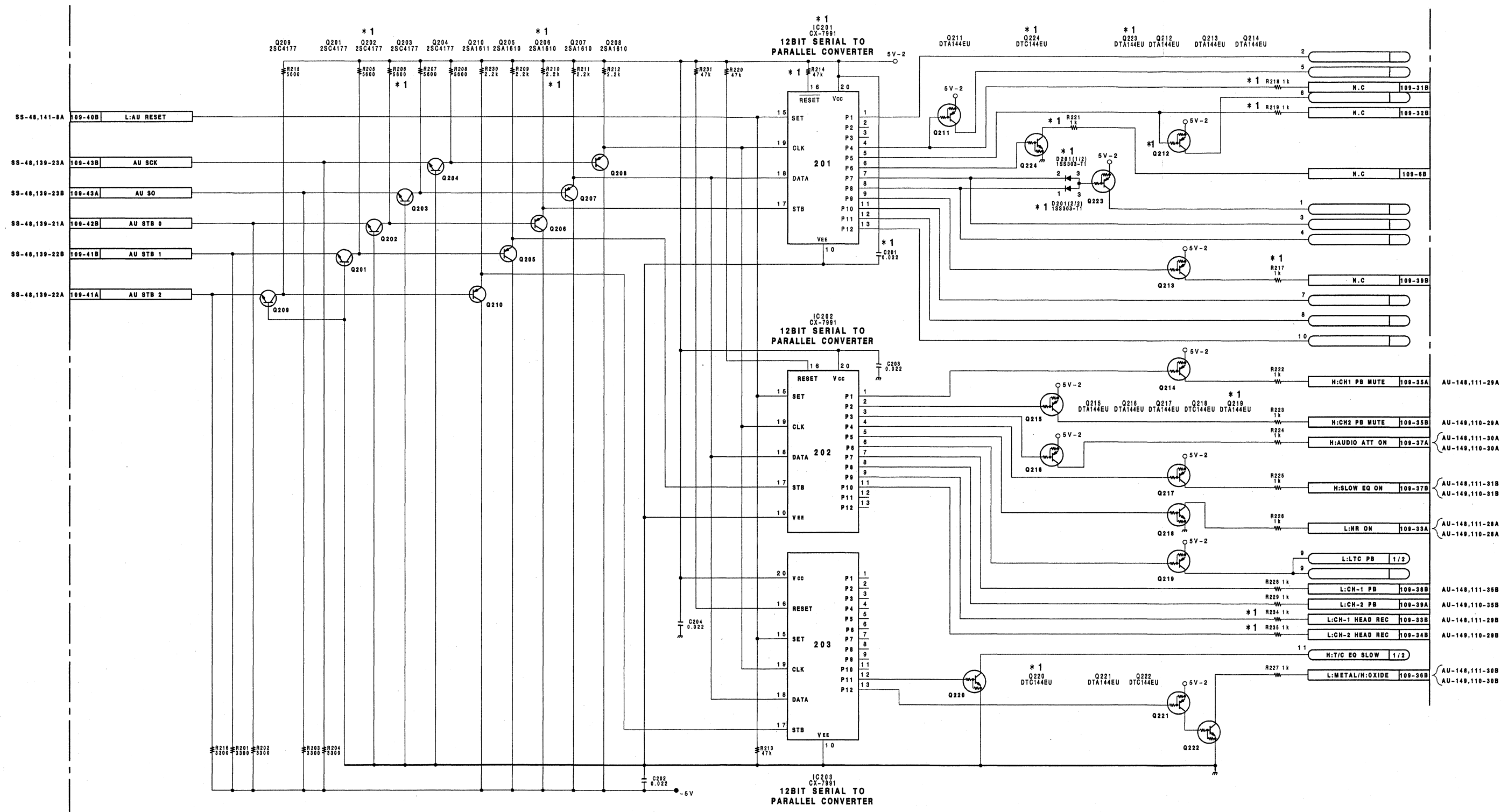
AU-150A BOARD (1 / 2)

BOARD NO.1-640-037-22
PVW-2650P(EK);#10001-

AU-150A(1-640-037-22)

TP3	B-3
TP5	B-2

AU-150A(2/2);MODE CONTROL

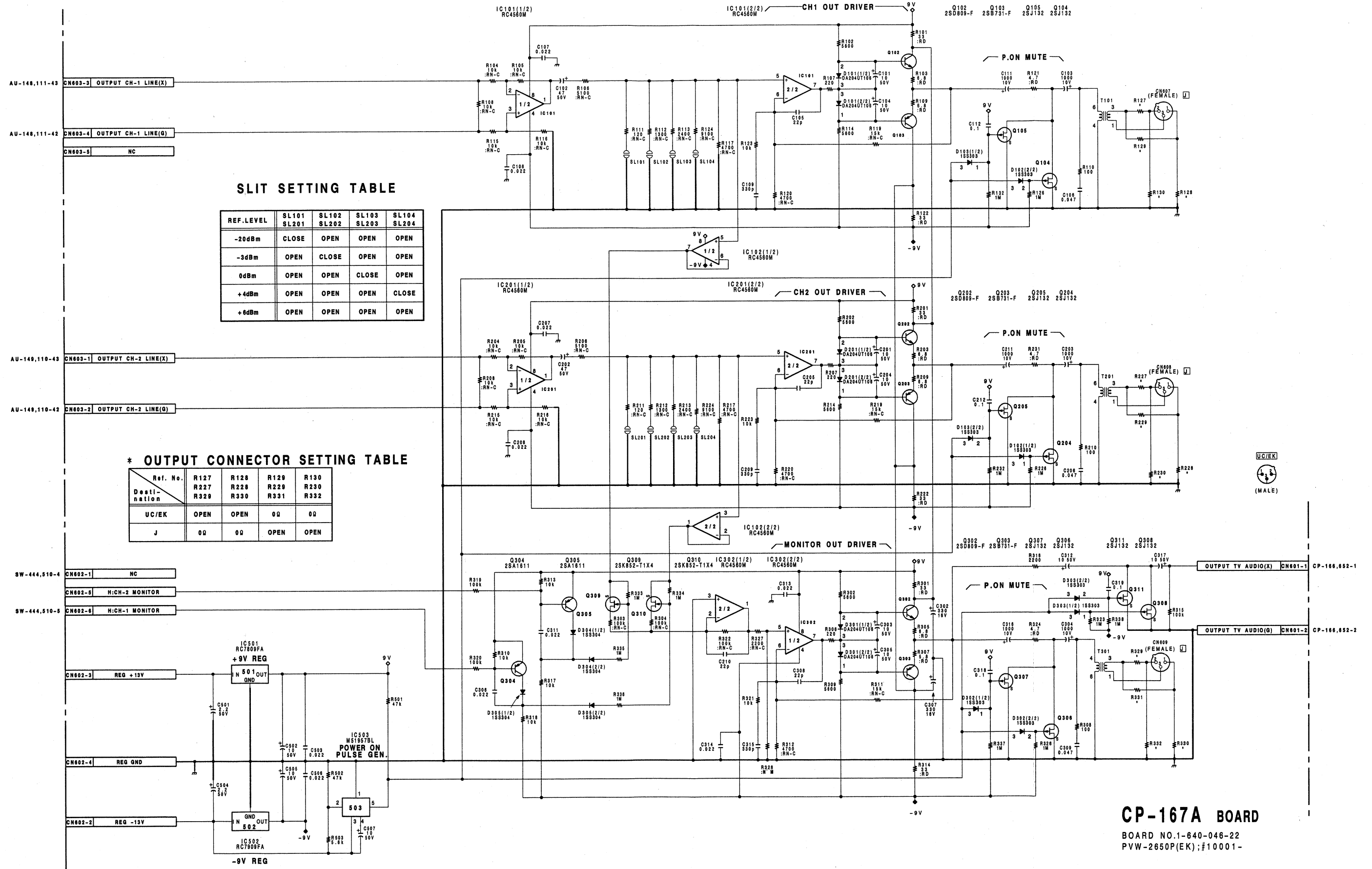


NOTE:

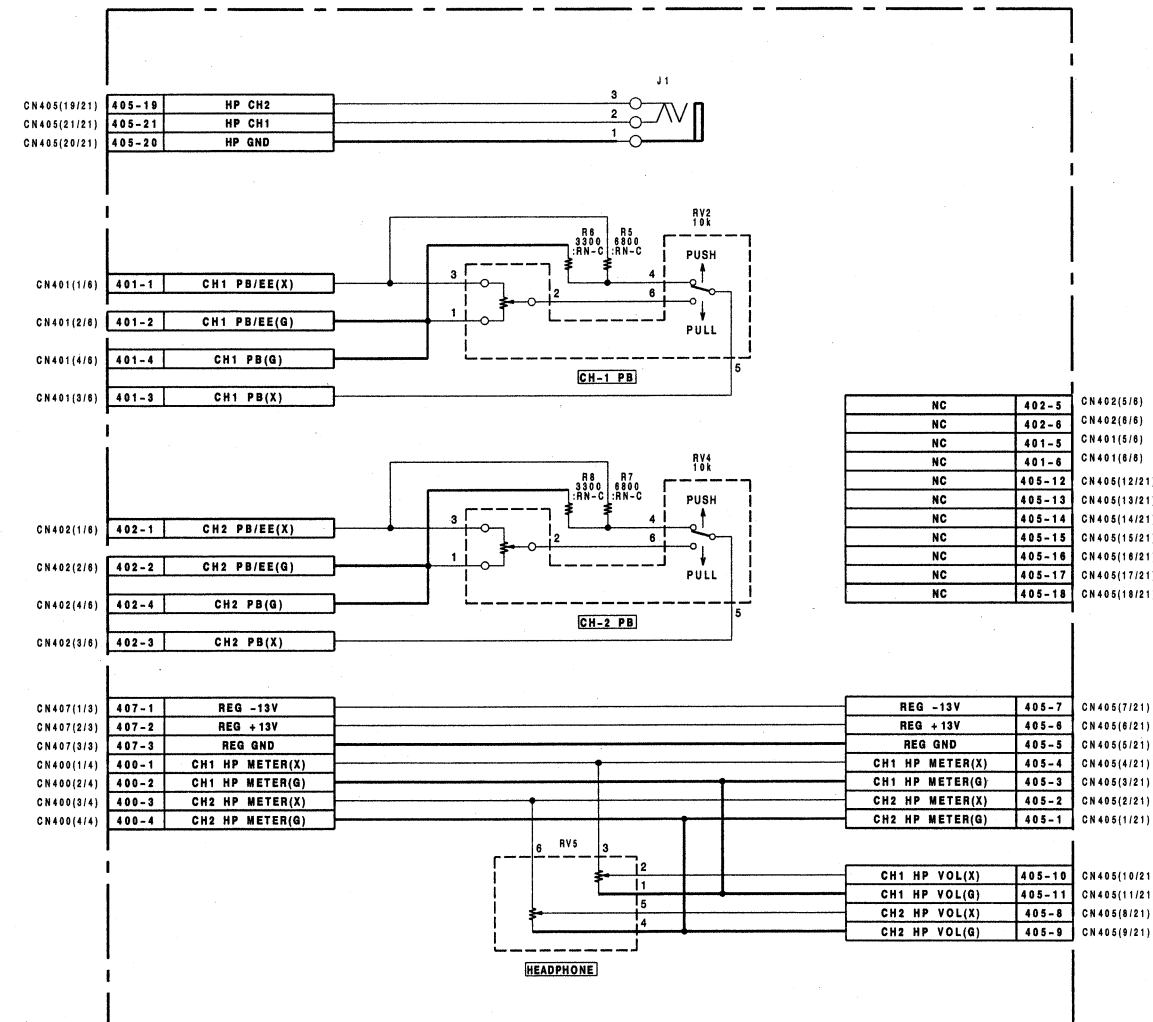
MARK	CHANGE INFORMATION	SERIAL NO.
* 1	DELETED	J:S/N 10151- UC:S/N 10001- EK:S/N 10101-

AU-150A BOARD (2/2)
BOARD NO.1-640-037-22
PVW-2650P(EK);#10001-

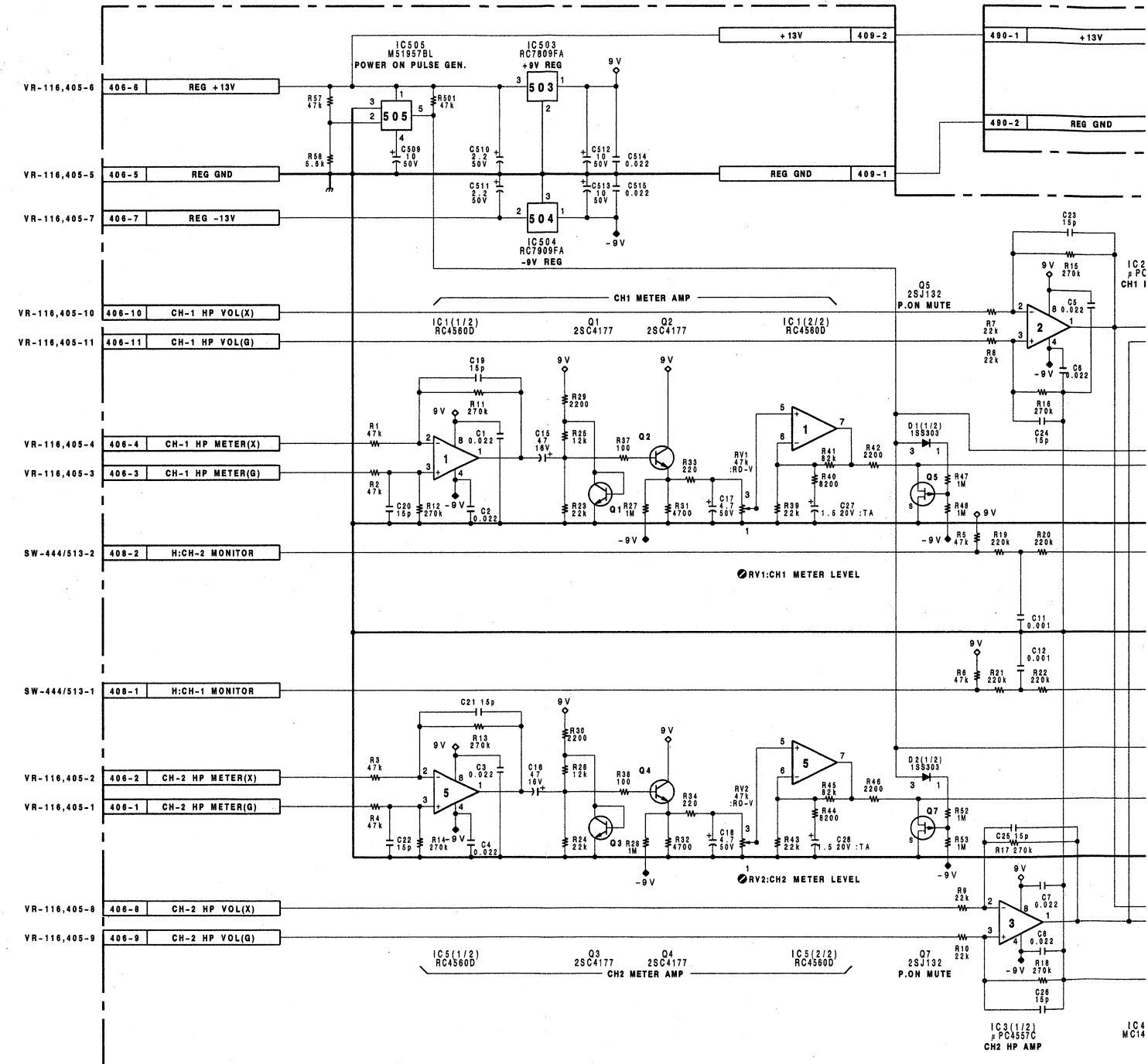
CP-167A;AUDIO OUTPUT CONNECTOR,LINE OUT DRIVER



VR-116B;AUDIO PB LEVEL CONTROL,HEADPHONE VOLUME CONTROL

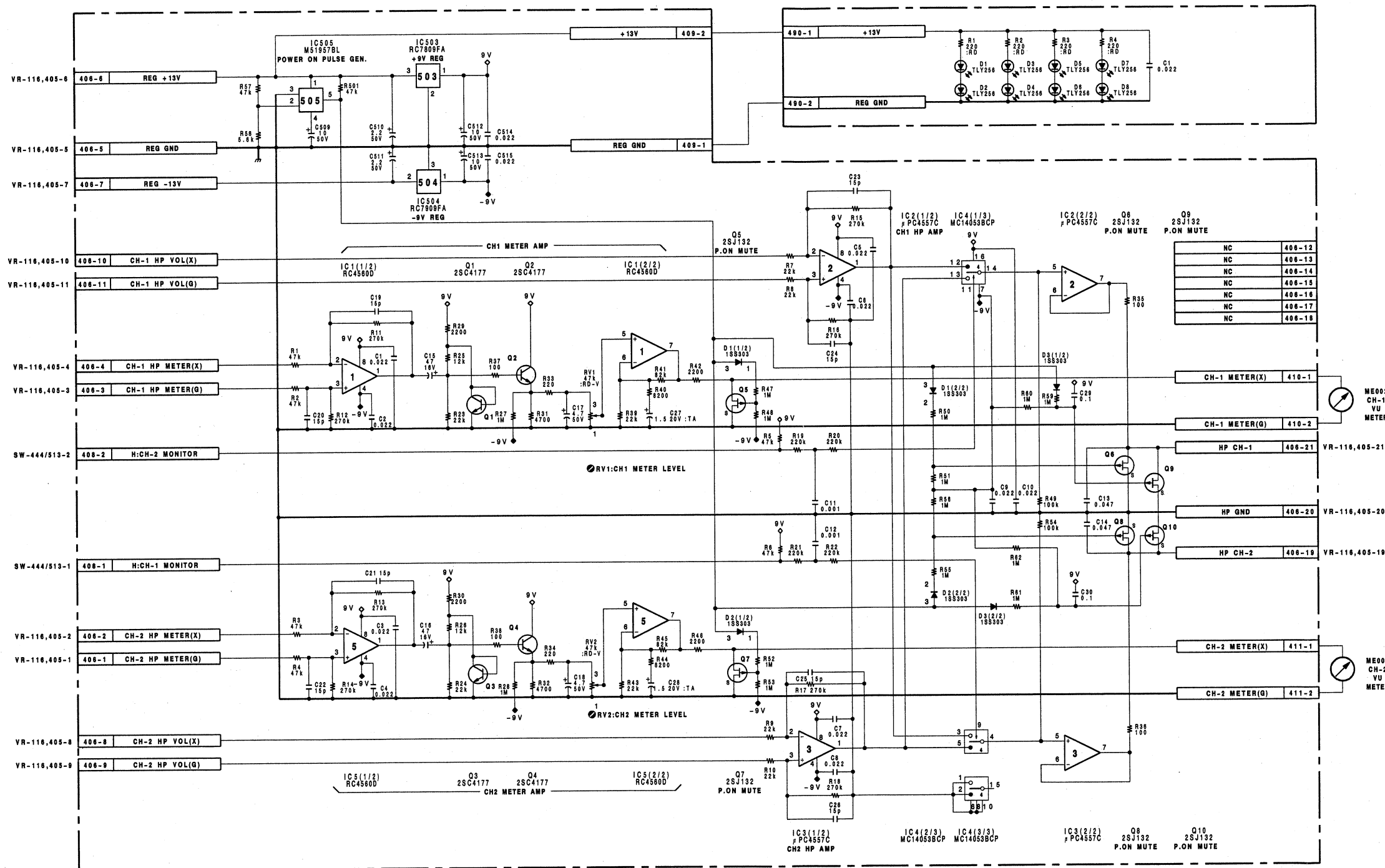


MA-44B;AUDIO METER DRIVER,HEADPHONE AMPLIFIER
DP-138B;AUDIO LEVEL METER BACK LIGHT



MA-44B;AUDIO METER DRIVER,HEADPHONE AMPLIFIER
DP-138B;AUDIO LEVEL METER BACK LIGHT

5 N405(5/8)
6 N405(6/8)
7 N405(7/8)
8 N405(8/8)
9 N405(9/8)
10 N405(10/8)
11 N405(11/8)
12 N405(12/8)
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99 N405(99/8)
100 N405(100/8)



DP-138B BOARD
BOARD NO.1-640-040-31
PVW-2650P(EK);#10001-

MA-44B BOARD
BOARD NO.1-640-041-31
PVW-2650P(EK);#10001-

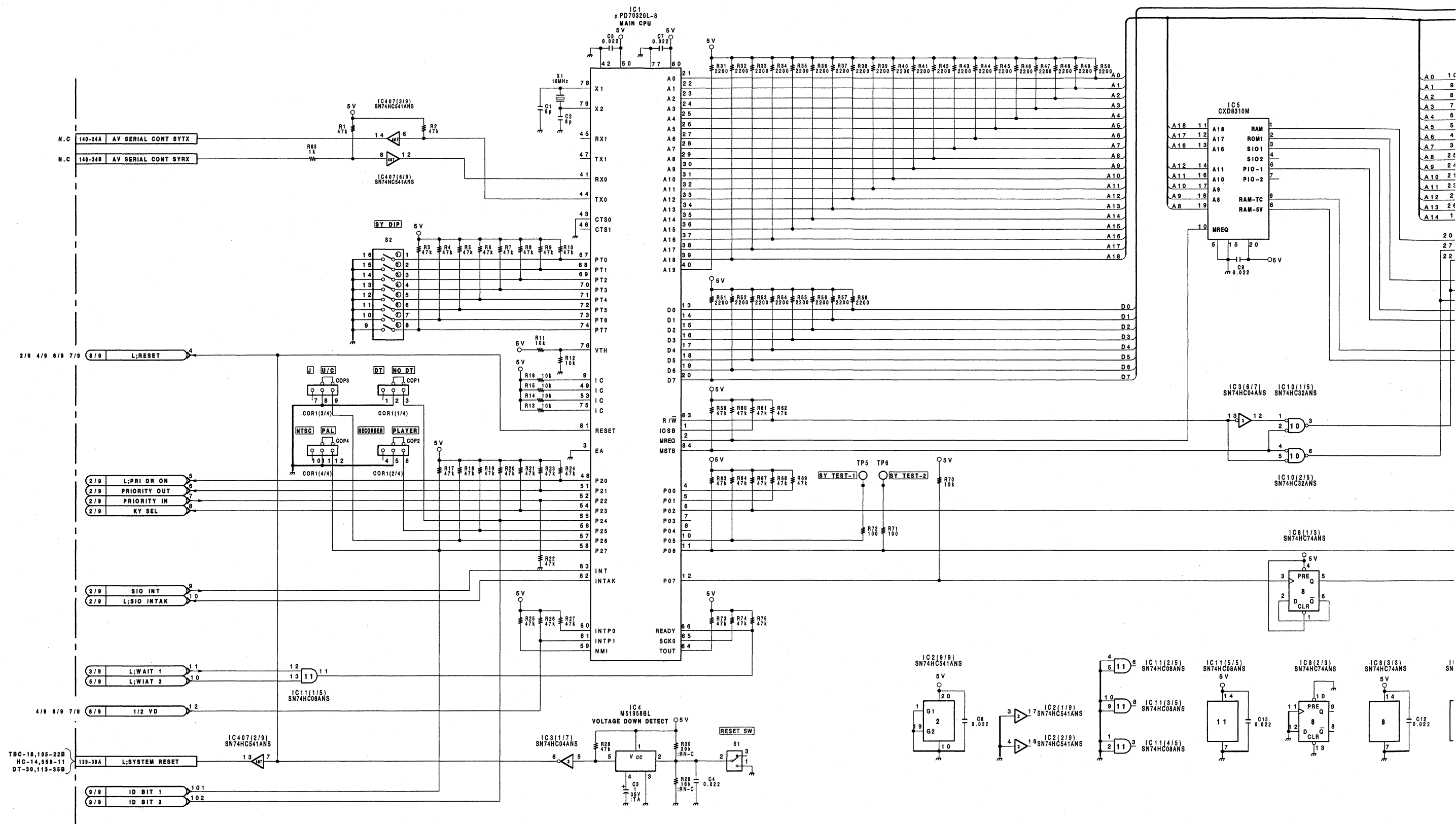
SS-48P(1-640-029-12)

TP5	P-2
TP6	P-2
TP101	L-6
TP102	K-5
TP103	L-7
TP104	L-7
TP105	L-4
TP401	J-6
TP402	N-2
TP403	K-4
TP404	Q-7
TP408	J-1
TP501	G-3
TP502	F-2
TP503	F-4
TP504	G-3
TP505	G-3
TP506	J-4
TP507	G-1
TP508	G-4
TP509	K-3
TP601	B-4
TP602	B-2
TP603	B-2
TP604	B-1
TP605	A-1
TP606	A-1
TP607	F-1
TP701	B-3
TP702	B-6
TP703	F-2
TP704	F-2
TP705	C-4
TP706	D-4
TP708	C-1
TP709	A-4
TP710	E-3
TP711	E-3
TP712	B-3
TP713	C-7
TP714	B-4
TP715	A-6
TP717	E-1
TP718	B-4
TP719	A-3
TP720	A-3
TP722	C-5
TP723	C-5
TP724	F-7
TP725	C-5
TP801	F-7
TP802	G-7
TP803	A-6
TP804	B-7
TP805	D-7
TP806	D-1

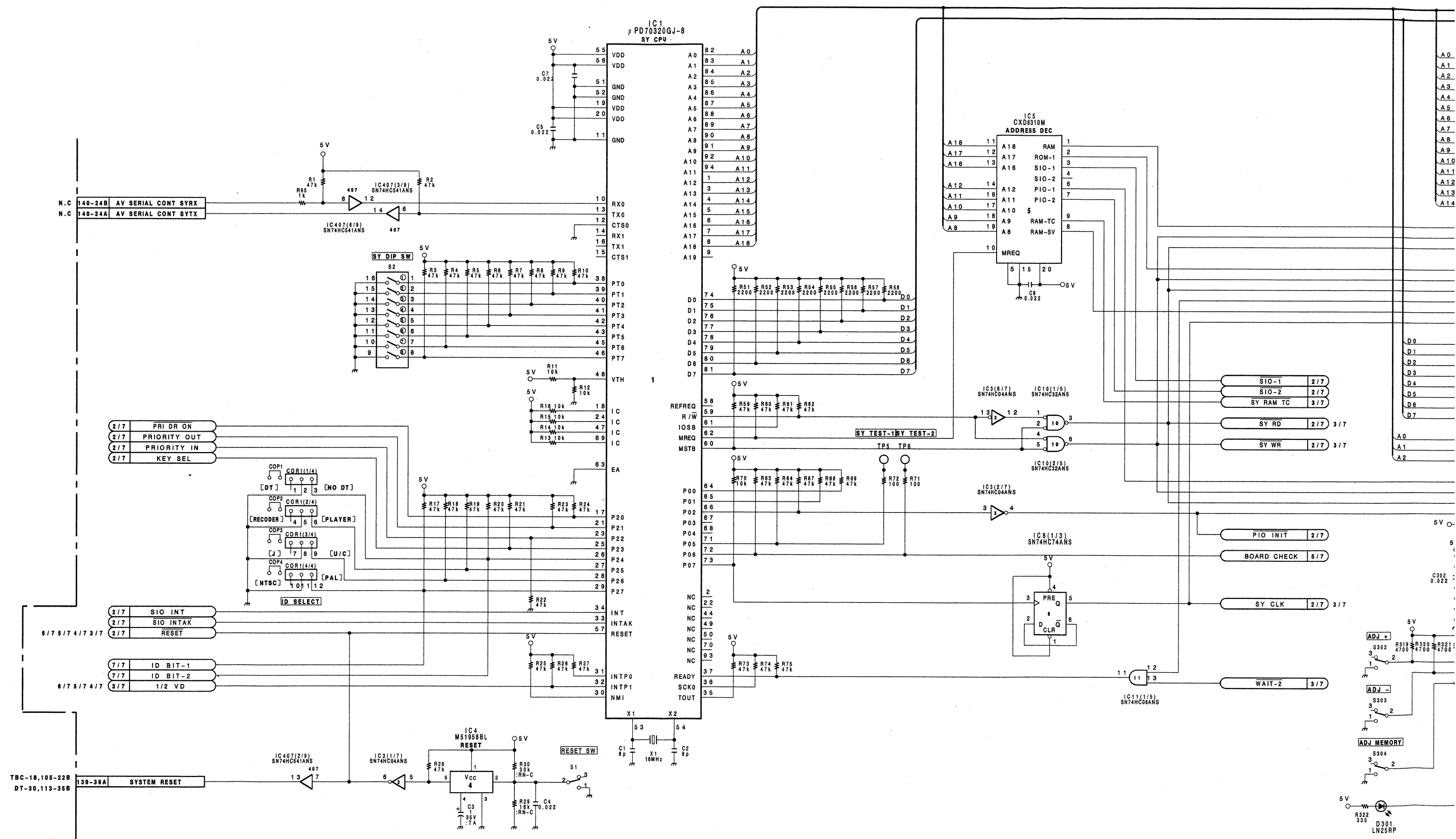
SS-48P(1-640-029-13)

TP5	R-2
TP6	R-2
TP101	K-5
TP102	L-5
TP103	L-7
TP104	L-7
TP105	L-4
TP401	J-1
TP403	K-4
TP404	K-6
TP408	J-1
TP501	G-3
TP502	F-2
TP503	F-4
TP504	G-3
TP505	G-3
TP506	J-4
TP507	H-1
TP508	G-4
TP509	K-3
TP601	B-4
TP605	A-1
TP606	A-1
TP607	F-1
TP701	B-3
TP702	B-6
TP703	F-2
TP704	E-2
TP705	C-4
TP706	E-4
TP708	C-1
TP709	B-4
TP710	E-3
TP711	E-3
TP712	B-3
TP713	C-7
TP714	B-4
TP715	B-6
TP716	D-1
TP717	E-1
TP718	B-4
TP719	A-3
TP720	A-3
TP722	C-5
TP723	C-5
TP724	F-7
TP725	C-5
TP801	F-7
TP802	G-7
TP803	B-6
TP804	B-7
TP805	C-7
TP806	D-1

SS-48P(1/9);SYSTEM CONTROL

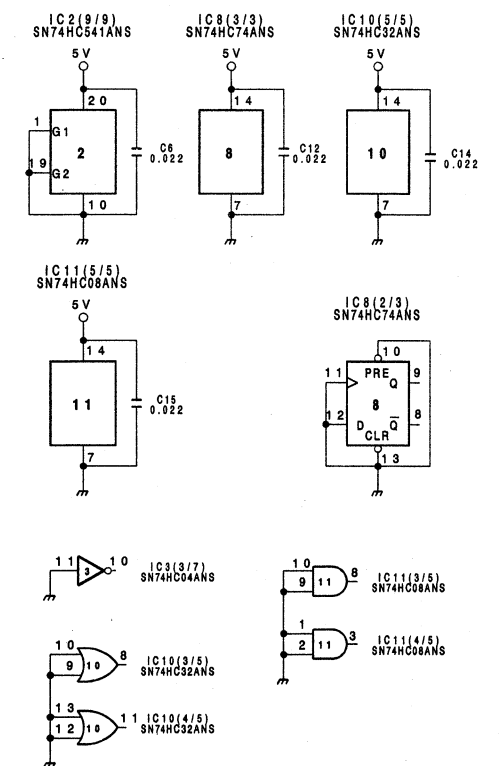
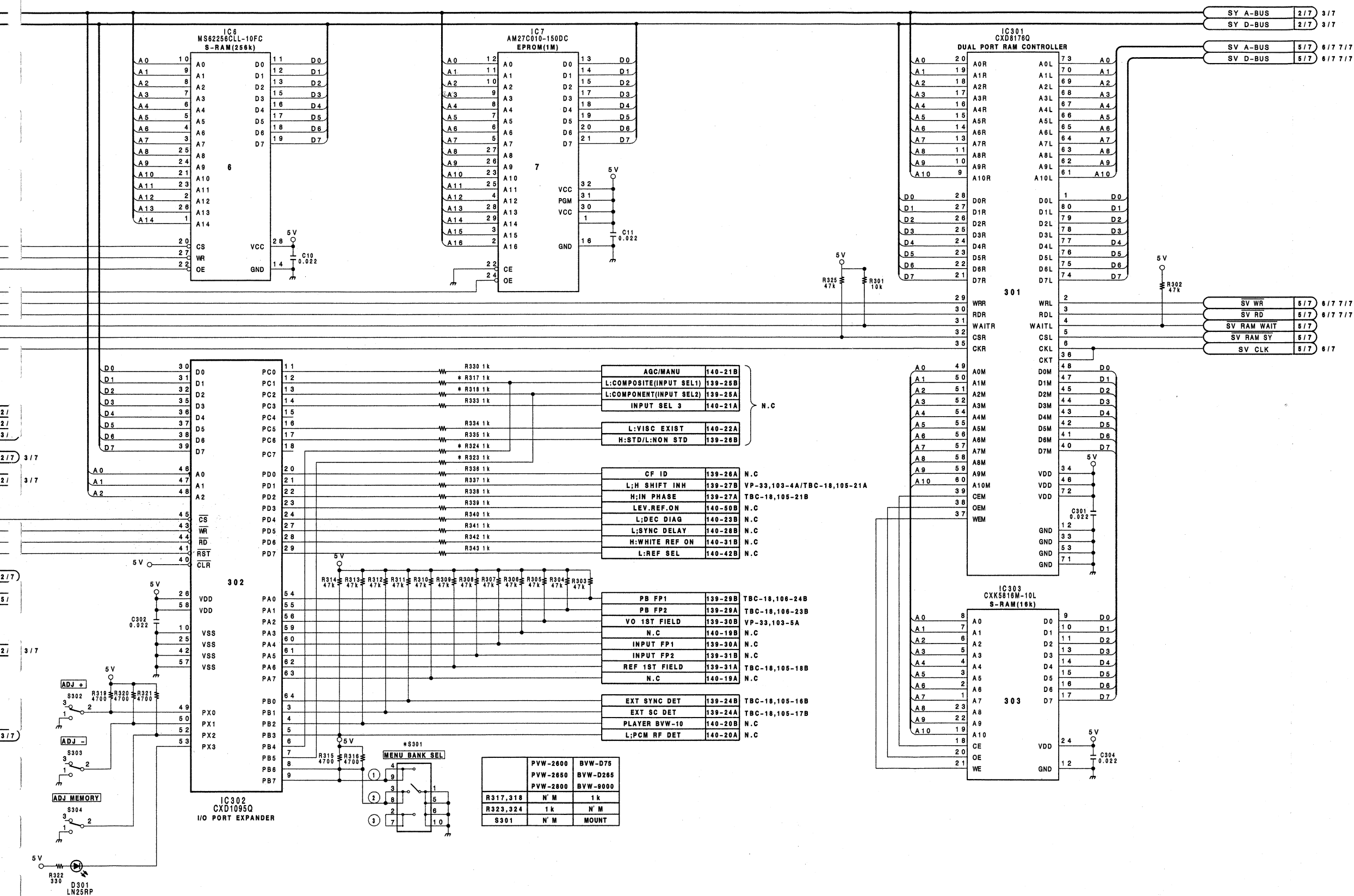


SS-48P(1/7);SY CPU





L



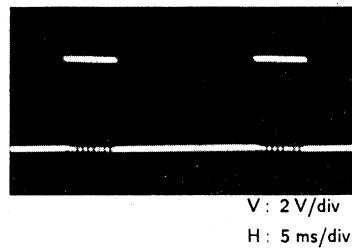
SS-48P BOARD (1/7)

BOARD NO.1-640-029-13
PVW-2650P ;#10496-

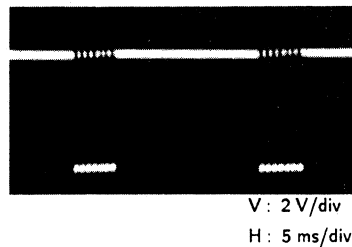
SS-48P(1-640-029-12)

TP5 P-2
 TP6 P-2
 TP101 L-6
 TP102 K-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-6
 TP402 N-2
 TP403 K-4
 TP404 Q-7
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 G-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP602 B-2
 TP603 B-2
 TP604 B-1
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 F-2
 TP705 C-4
 TP706 D-4
 TP708 C-1
 TP709 A-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 A-6
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 A-6
 TP804 B-7
 TP805 D-7
 TP806 D-1

① TP 104
EE/PB



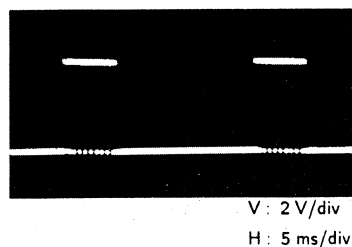
② TP 105
EE/PB



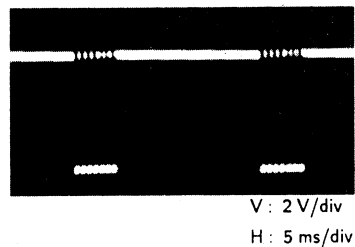
SS-48P(1-640-029-13)

TP5 R-2
 TP6 R-2
 TP101 K-5
 TP102 L-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-1
 TP403 K-4
 TP404 K-6
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 H-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 E-2
 TP705 C-4
 TP706 E-4
 TP708 C-1
 TP709 B-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 B-6
 TP716 D-1
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 B-6
 TP804 B-7
 TP805 C-7
 TP806 D-1

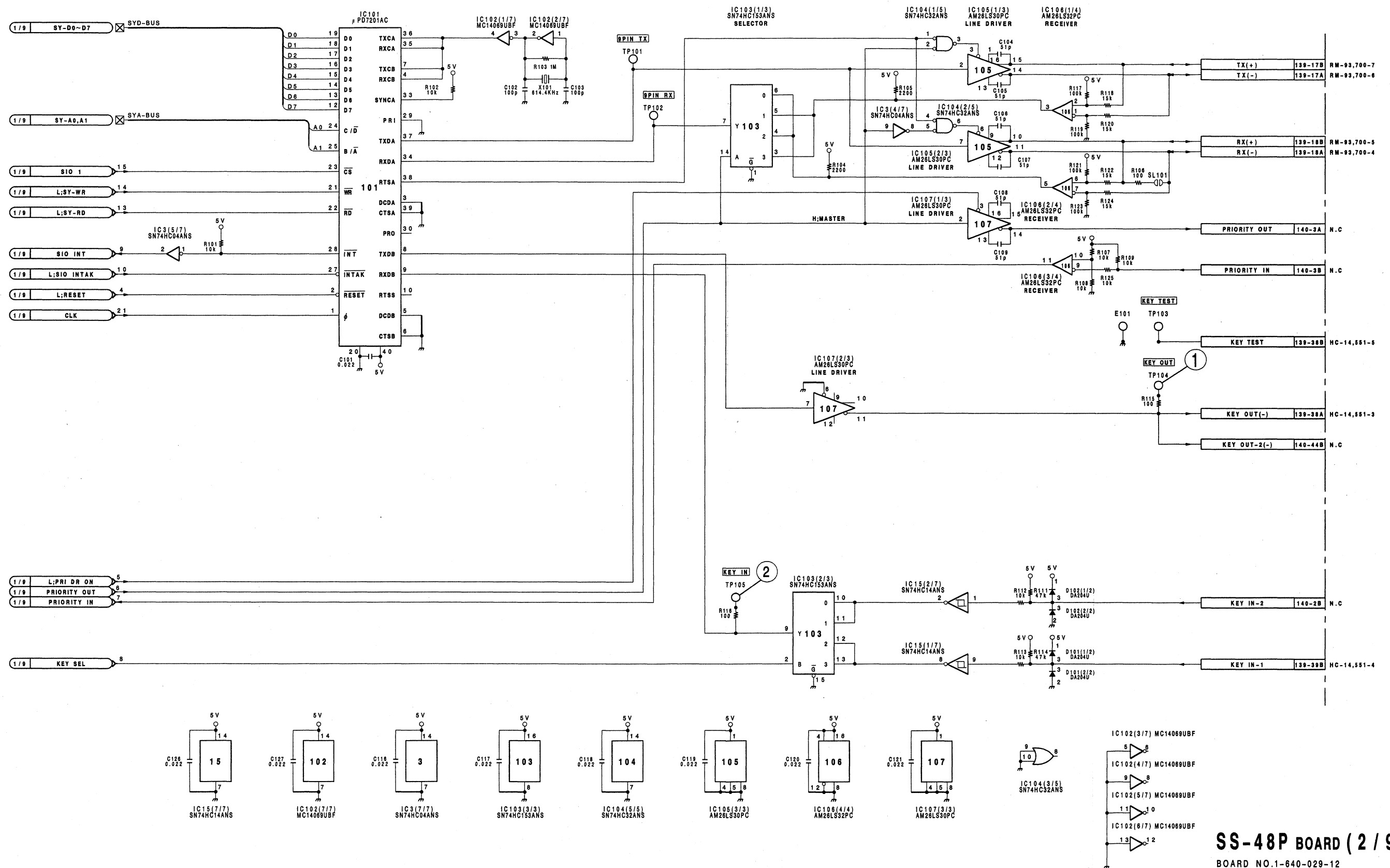
① TP 104
EE/PB



② TP 105
EE/PB



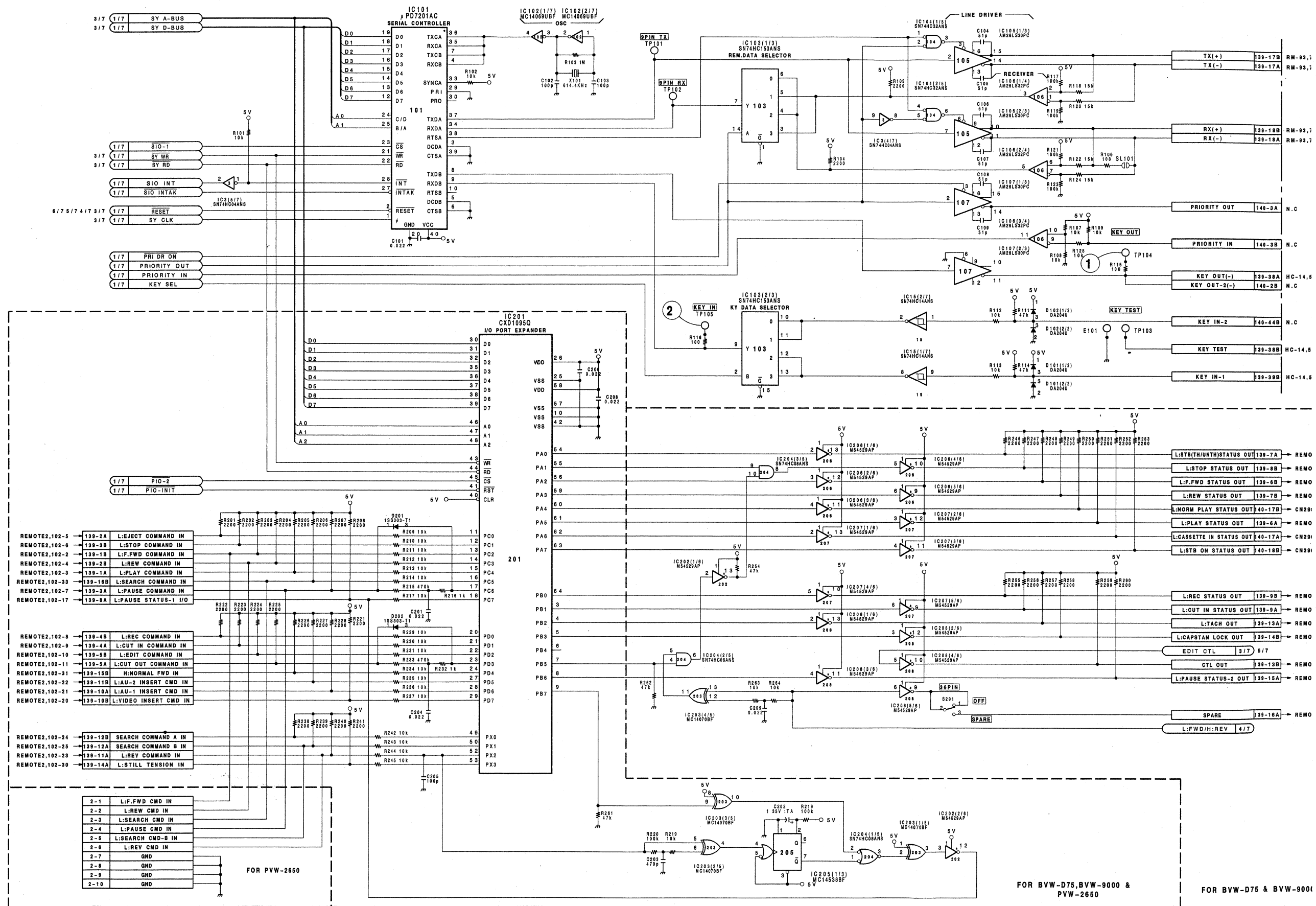
SS-48P(2/9);SYSTEM CONTROL

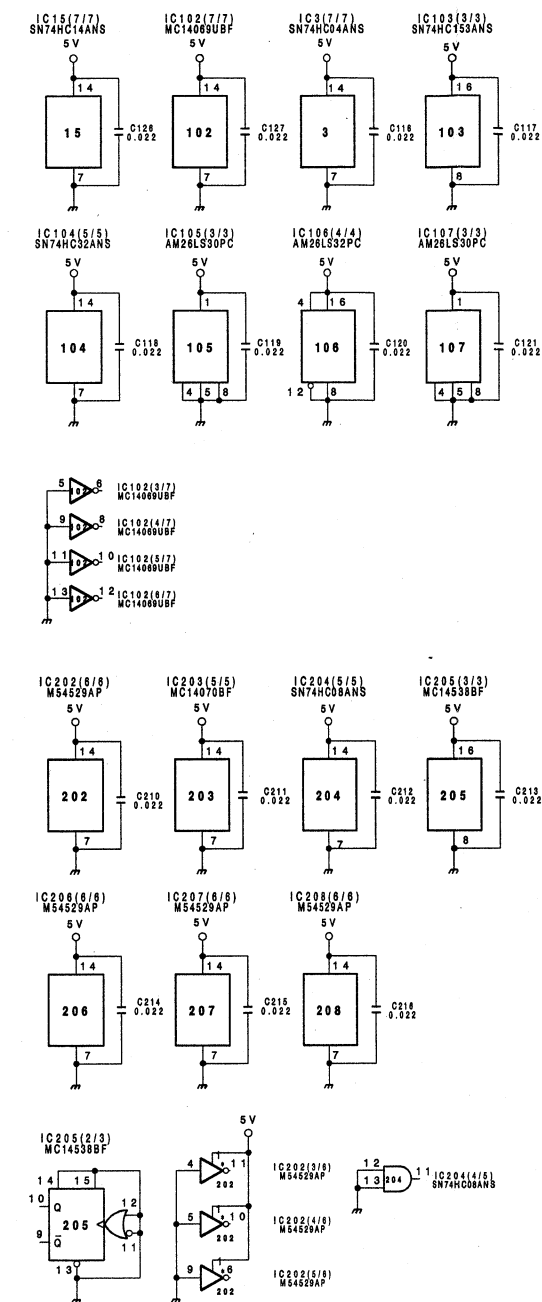
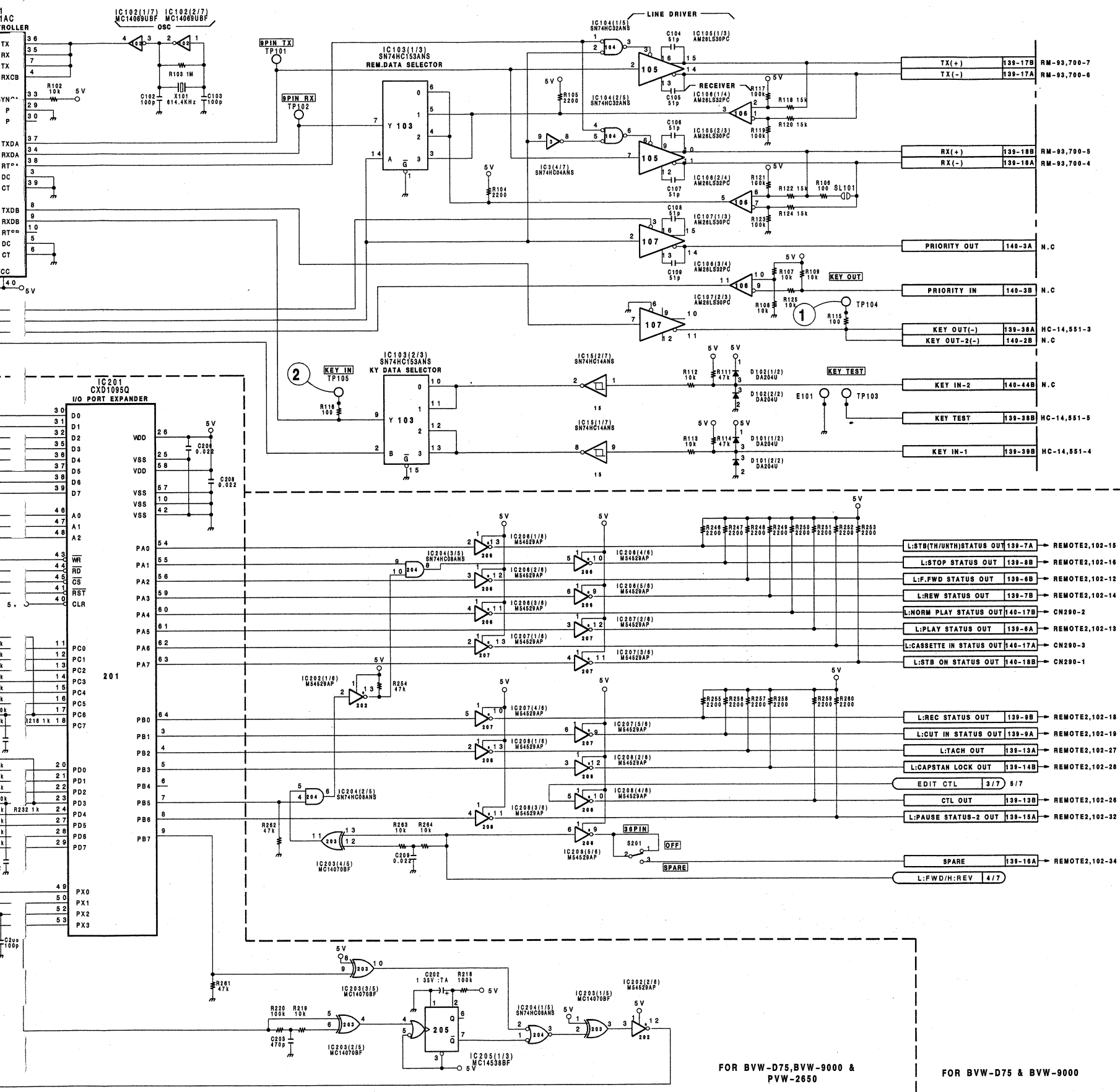


SS-48P BOARD (2/9)

BOARD NO.1-640-029-12
PVW-2650P(EK);#10001-10495

SS-48P(2/7);KY/REMOTE INTERFACE





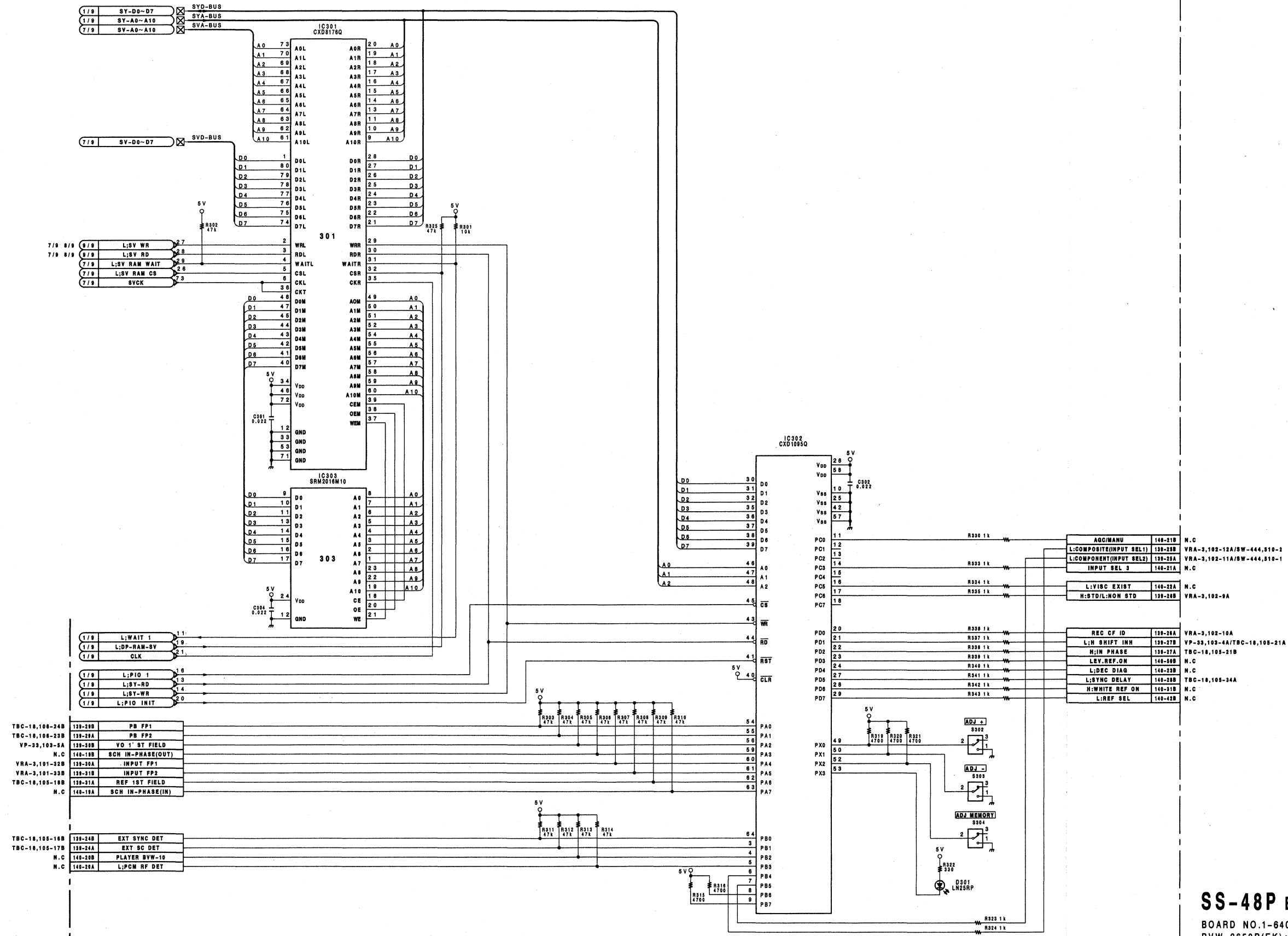
SS-48P(1-640-029-12)

TP5	P-2
TP6	P-2
TP101	L-6
TP102	K-5
TP103	L-7
TP104	L-7
TP105	L-4
TP401	J-6
TP402	N-2
TP403	K-4
TP404	Q-7
TP408	J-1
TP501	G-3
TP502	F-2
TP503	F-4
TP504	G-3
TP505	G-3
TP506	J-4
TP507	G-1
TP508	G-4
TP509	K-3
TP601	B-4
TP602	B-2
TP603	B-2
TP604	B-1
TP605	A-1
TP606	A-1
TP607	F-1
TP701	B-3
TP702	B-6
TP703	F-2
TP704	F-2
TP705	C-4
TP706	D-4
TP708	C-1
TP709	A-4
TP710	E-3
TP711	E-3
TP712	B-3
TP713	C-7
TP714	B-4
TP715	A-6
TP717	E-1
TP718	B-4
TP719	A-3
TP720	A-3
TP722	C-5
TP723	C-5
TP724	F-7
TP725	C-5
TP801	F-7
TP802	G-7
TP803	A-6
TP804	B-7
TP805	D-7
TP806	D-1

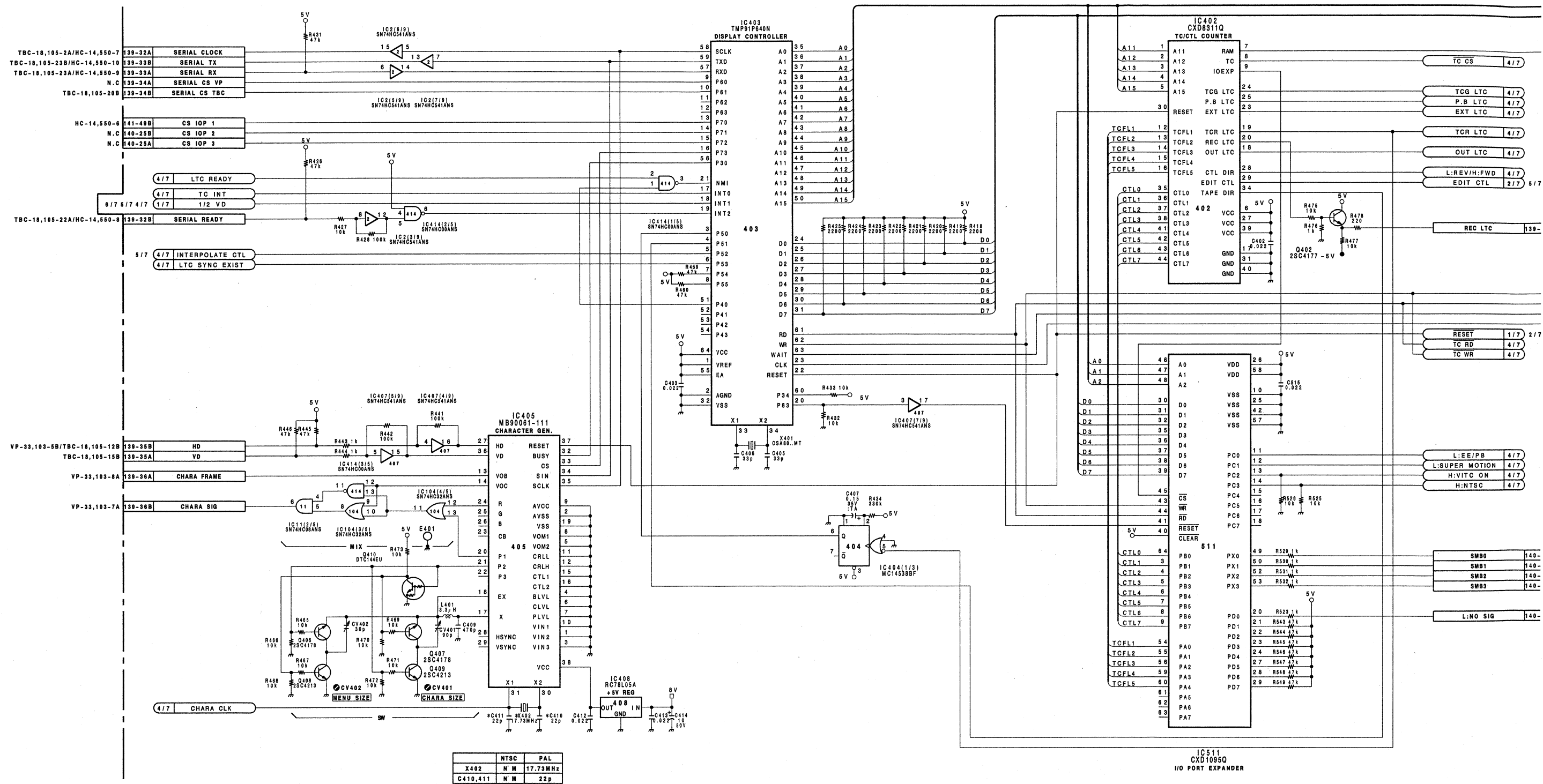
SS-48P(1-640-029-13)

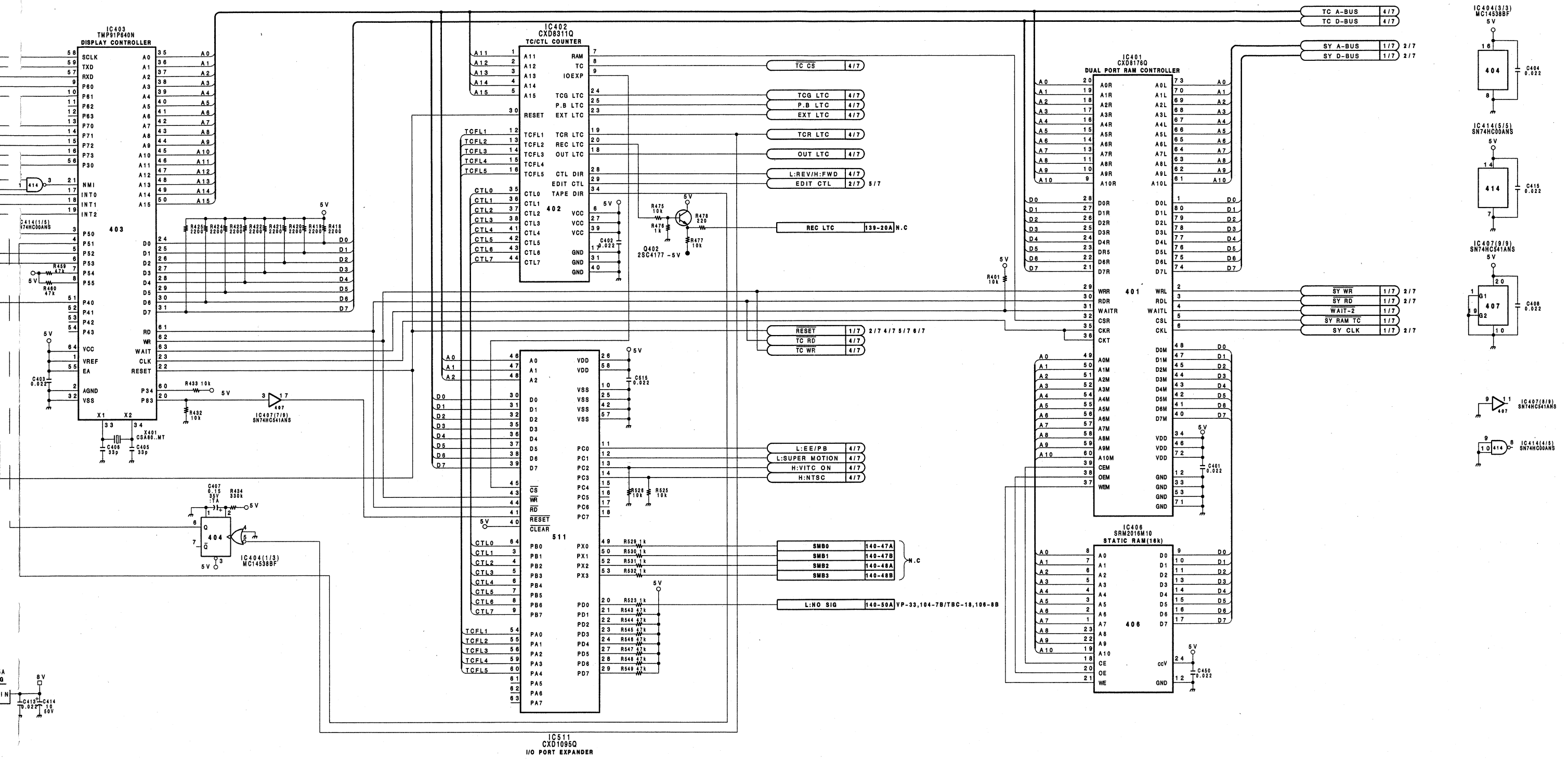
TP5	R-2
TP6	R-2
TP101	K-5
TP102	L-5
TP103	L-7
TP104	L-7
TP105	L-4
TP401	J-1
TP403	K-4
TP404	K-6
TP408	J-1
TP501	G-3
TP502	F-2
TP503	F-4
TP504	G-3
TP505	G-3
TP506	J-4
TP507	H-1
TP508	G-4
TP509	K-3
TP601	B-4
TP605	A-1
TP606	A-1
TP607	F-1
TP701	B-3
TP702	B-6
TP703	F-2
TP704	E-2
TP705	C-4
TP706	E-4
TP708	C-1
TP709	B-4
TP710	E-3
TP711	E-3
TP712	B-3
TP713	C-7
TP714	B-4
TP715	B-6
TP716	D-1
TP717	E-1
TP718	B-4
TP719	A-3
TP720	A-3
TP722	C-5
TP723	C-5
TP724	F-7
TP725	C-5
TP801	F-7
TP802	G-7
TP803	B-6
TP804	B-7
TP805	C-7
TP806	D-1

SS-48P(3/9);SYSTEM CONTROL



SS-48P(3/7);CHARACTER GENERATOR,DISPLAY/RAM CONTROLLER,TC/CTL COUNTER



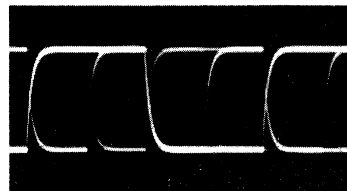


SS-48P BOARD (3/7)
BOARD NO.1-640-029-13
PVW-2650P ;#10496-

SS-48P(1-640-029-12)

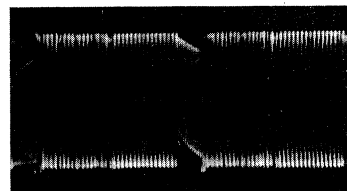
TP5 P-2
 TP6 P-2
 TP101 L-6
 TP102 K-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-6
 TP402 N-2
 TP403 K-4
 TP404 Q-7
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 G-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP602 B-2
 TP603 B-2
 TP604 B-1
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 F-2
 TP705 C-4
 TP706 D-4
 TP708 C-1
 TP709 A-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 A-6
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 A-6
 TP804 B-7
 TP805 D-7
 TP806 D-1

① TP 404
PB



V: 1 V/div
H: 200 μs/div

② TP 408
PB

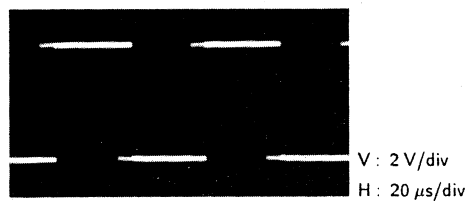


V: 2 V/div
H: 10 ms/div

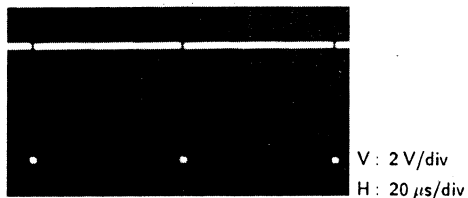
SS-48P(1-640-029-13)

TP5 R-2
 TP6 R-2
 TP101 K-5
 TP102 L-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-1
 TP403 K-4
 TP404 K-6
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 H-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 E-2
 TP705 C-4
 TP706 E-4
 TP708 C-1
 TP709 B-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 B-6
 TP716 D-1
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 B-6
 TP804 B-7
 TP805 C-7
 TP806 D-1

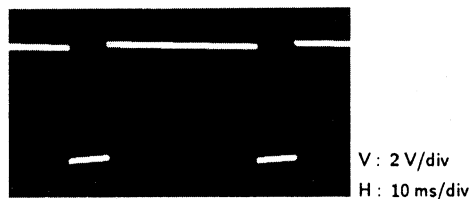
① TP 501
PB/EE



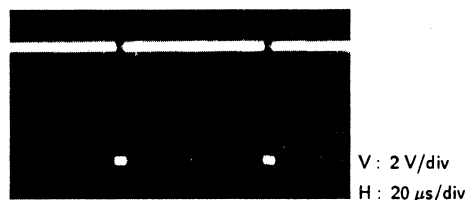
② TP 502
PB/EE



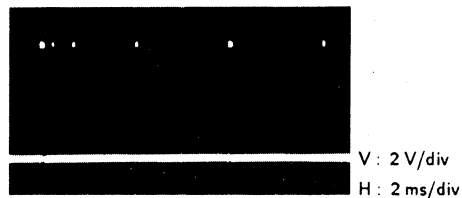
③ TP 503
PB/EE



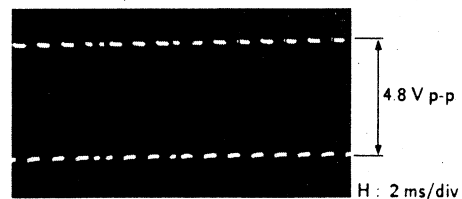
④ TP 504
PB/EE



⑤ TP 507
PB/EE



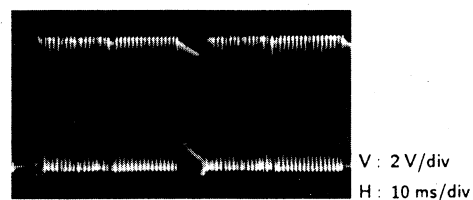
⑥ TP 509
PB/EE



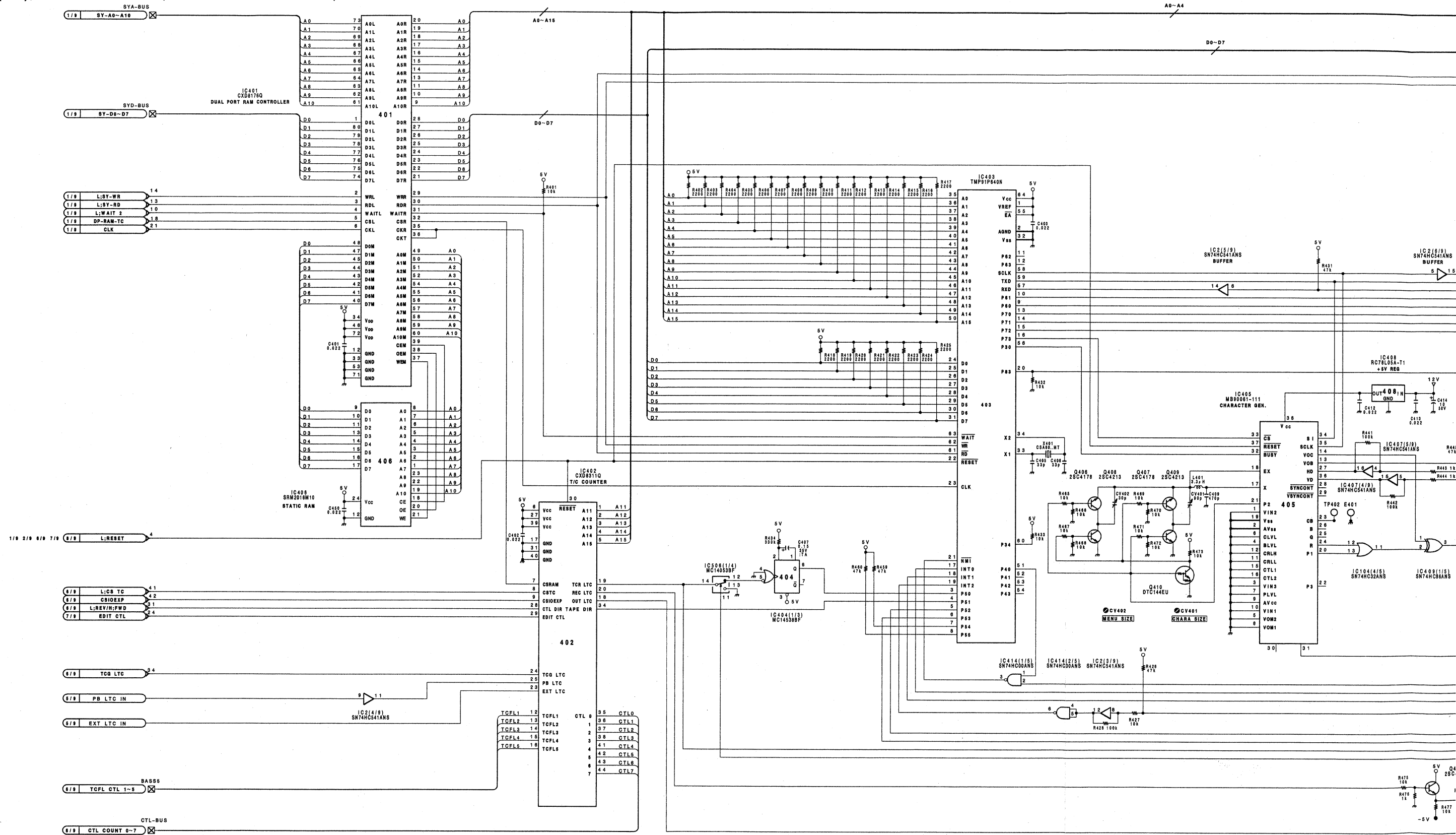
⑦ TP 404
PB



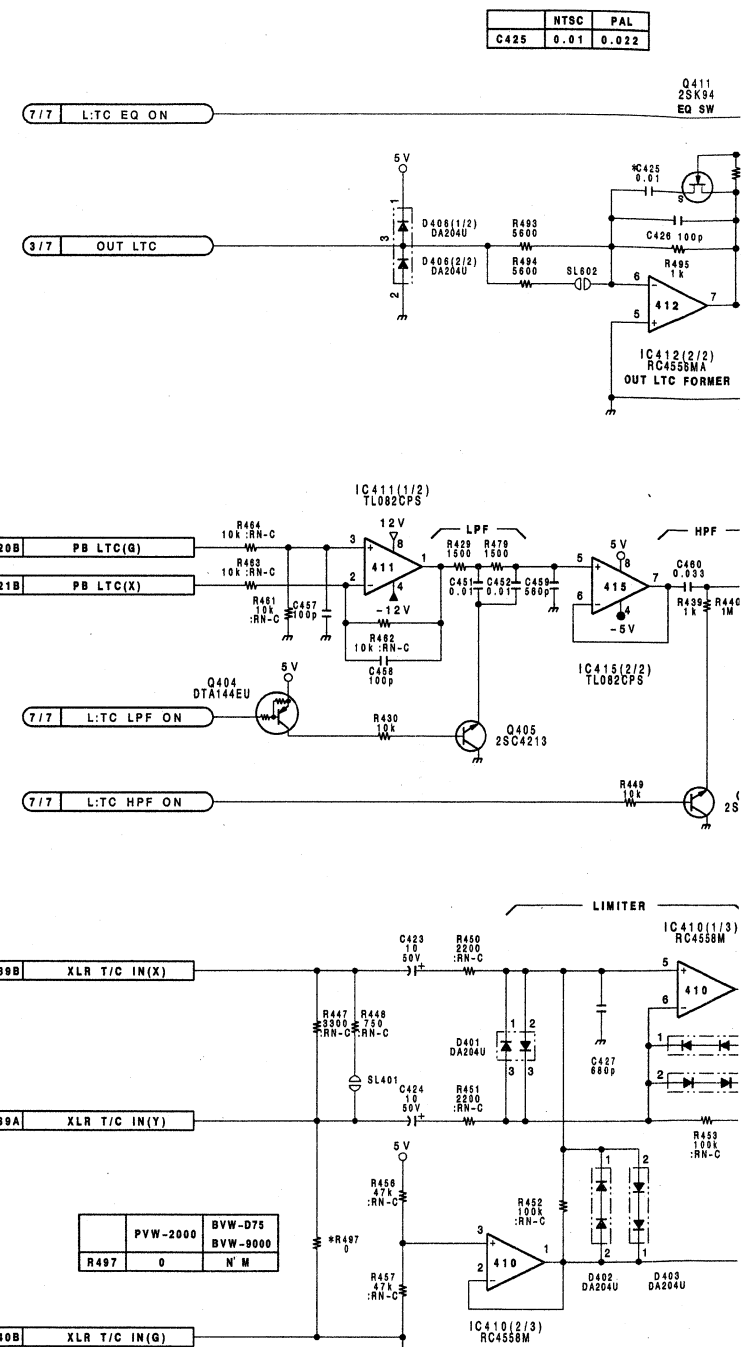
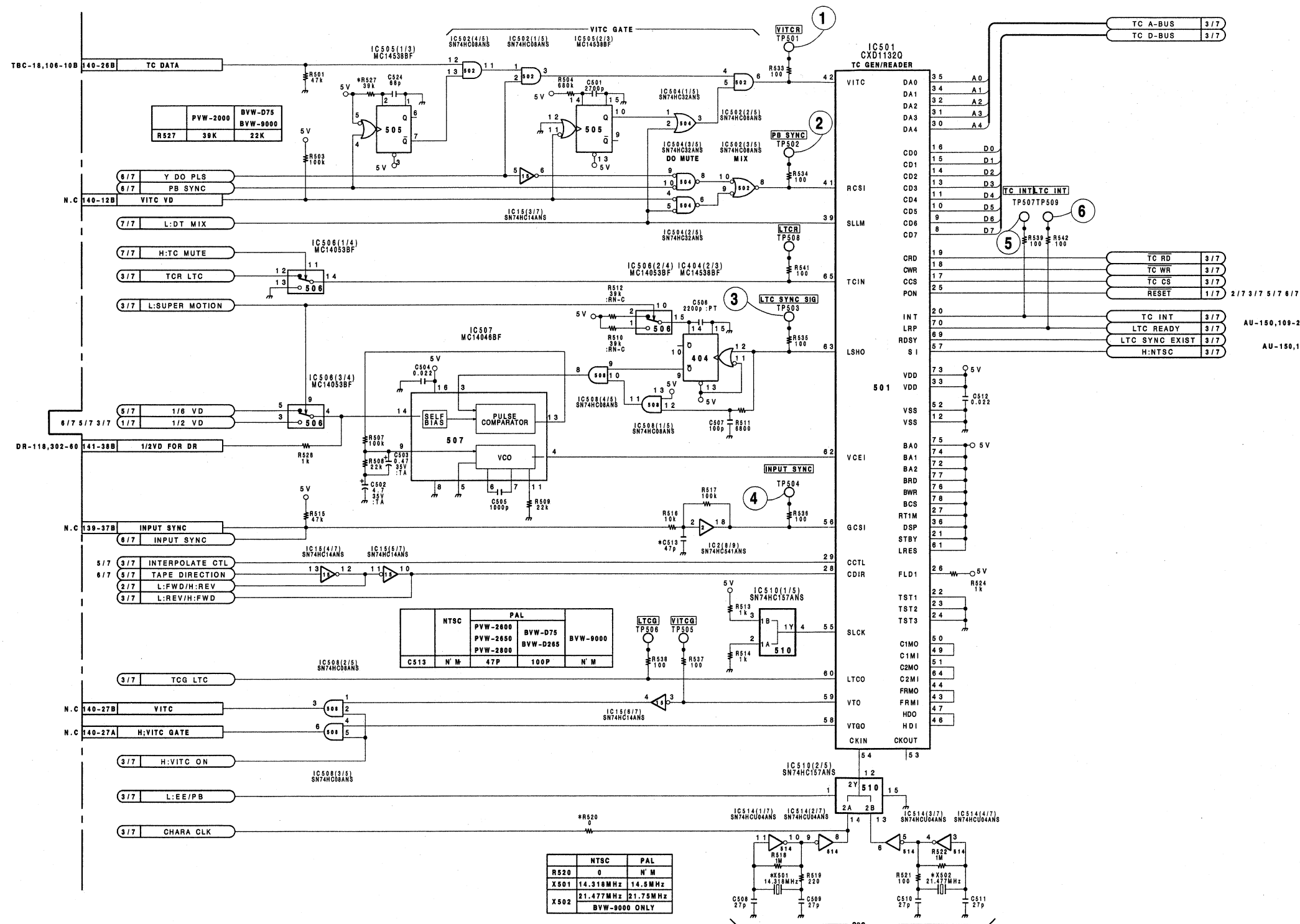
⑧ TP 408
PB



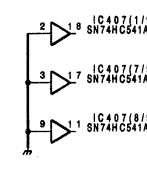
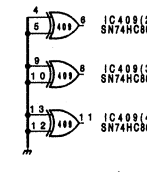
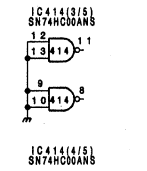
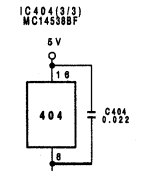
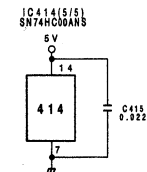
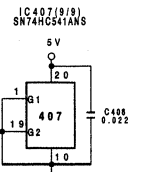
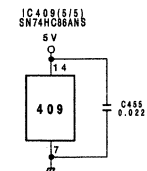
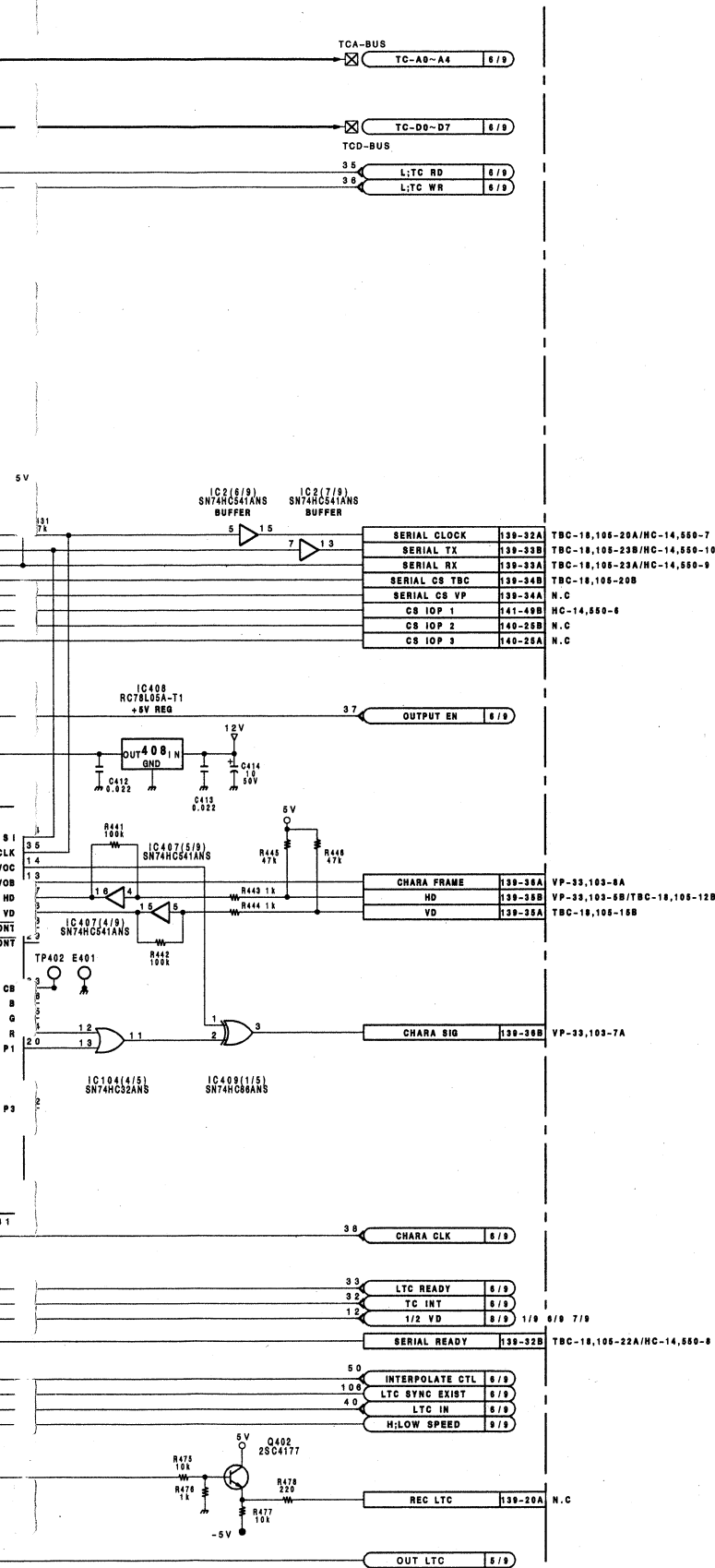
SS-48P(4/9);TC/CTL COUNTER,DISPLAY CONTROLLER,CHARACTER GENERATOR



SS-48P(4/7);TC GEN/READER,LTC FORMER

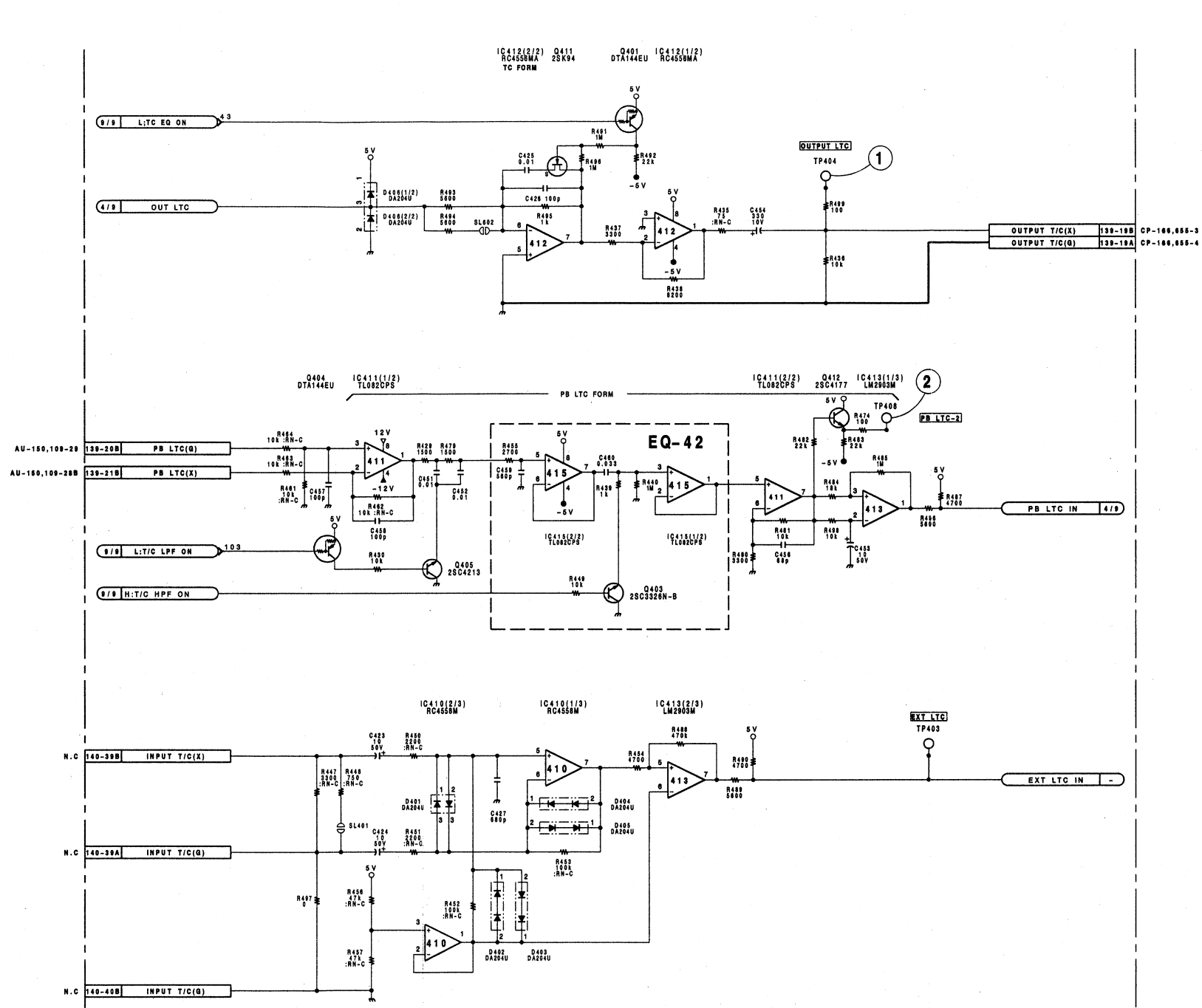


SS-48P(5/9);LTC FORMER



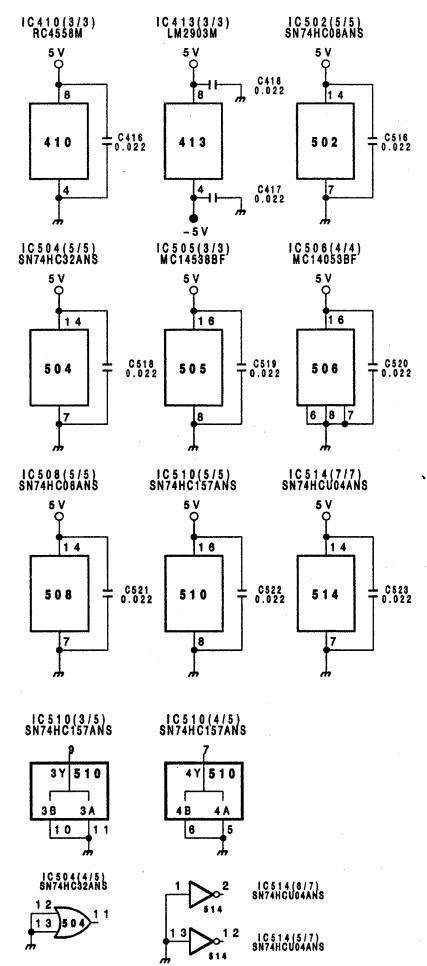
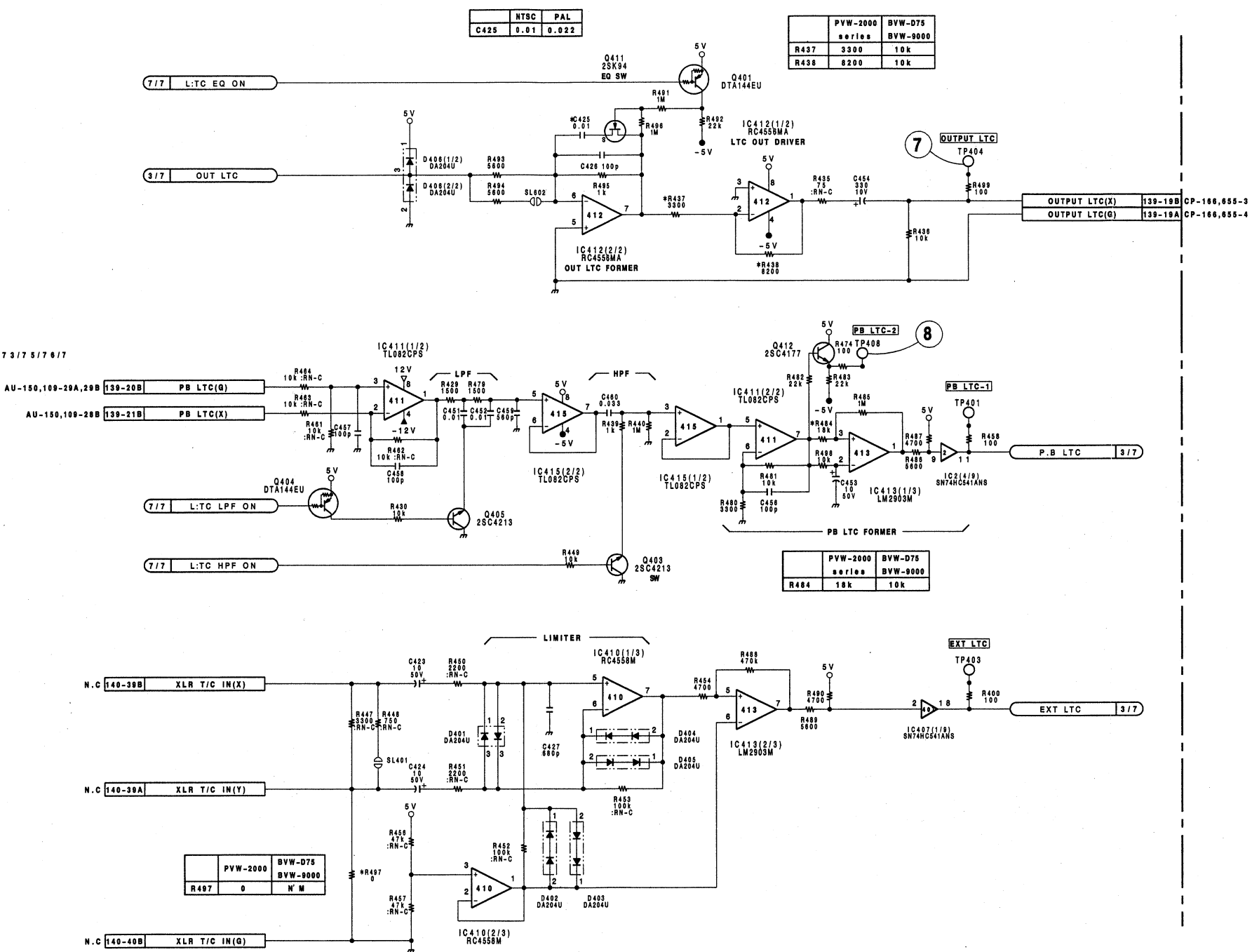
SS-48P BOARD (4/9)

BOARD NO.1-640-029-12
PVW-2650P(EK);#10001-10495



SS-48P BOARD (5/9)

BOARD NO.1-640-029-12
PVW-2650P(EK);#10001-10495



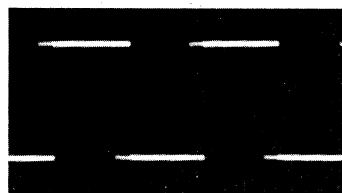
BOARD NO.1-640-029-13
PVW-2650P ;#10496-

L

SS-48P(1-640-029-12)

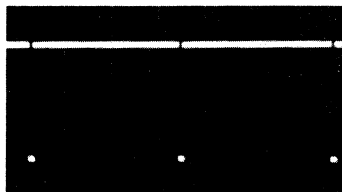
TP5 P-2
 TP6 P-2
 TP101 L-6
 TP102 K-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-6
 TP402 N-2
 TP403 K-4
 TP404 Q-7
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 G-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP602 B-2
 TP603 B-2
 TP604 B-1
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 F-2
 TP705 C-4
 TP706 D-4
 TP708 C-1
 TP709 A-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 A-6
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 A-6
 TP804 B-7
 TP805 D-7
 TP806 D-1

① TP 501
PB/EE



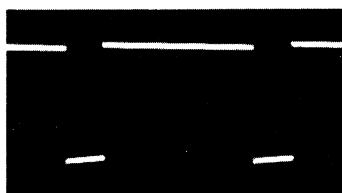
V : 2 V/div
H : 20 μ s/div

② TP 502
PB/EE



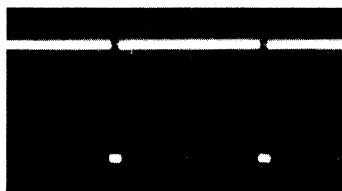
V : 2 V/div
H : 20 μ s/div

③ TP 503
PB/EE



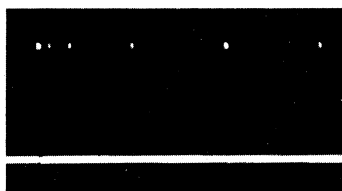
V : 2 V/div
H : 10 ms/div

④ TP 504
PB/EE



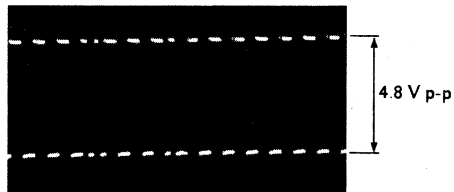
V : 2 V/div
H : 20 μ s/div

⑤ TP 507
PB/EE



V : 2 V/div
H : 2 ms/div

⑥ TP 509
PB/EE

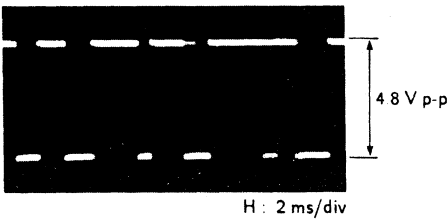


H : 2 ms/div

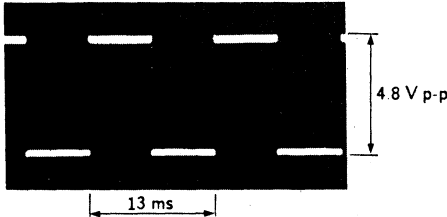
SS-48P(1-640-029-13)

- TP5 R-2
- TP6 R-2
- TP101 K-5
- TP102 L-5
- TP103 L-7
- TP104 L-7
- TP105 L-4
- TP401 J-1
- TP403 K-4
- TP404 K-6
- TP408 J-1
- TP501 G-3
- TP502 F-2
- TP503 F-4
- TP504 G-3
- TP505 G-3
- TP506 J-4
- TP507 H-1
- TP508 G-4
- TP509 K-3
- TP601 B-4
- TP605 A-1
- TP606 A-1
- TP607 F-1
- TP701 B-3
- TP702 B-6
- TP703 F-2
- TP704 E-2
- TP705 C-4
- TP706 E-4
- TP708 C-1
- TP709 B-4
- TP710 E-3
- TP711 E-3
- TP712 B-3
- TP713 C-7
- TP714 B-4
- TP715 B-6
- TP716 D-1
- TP717 E-1
- TP718 B-4
- TP719 A-3
- TP720 A-3
- TP722 C-5
- TP723 C-5
- TP724 F-7
- TP725 C-5
- TP801 F-7
- TP802 G-7
- TP803 B-6
- TP804 B-7
- TP805 C-7
- TP806 D-1

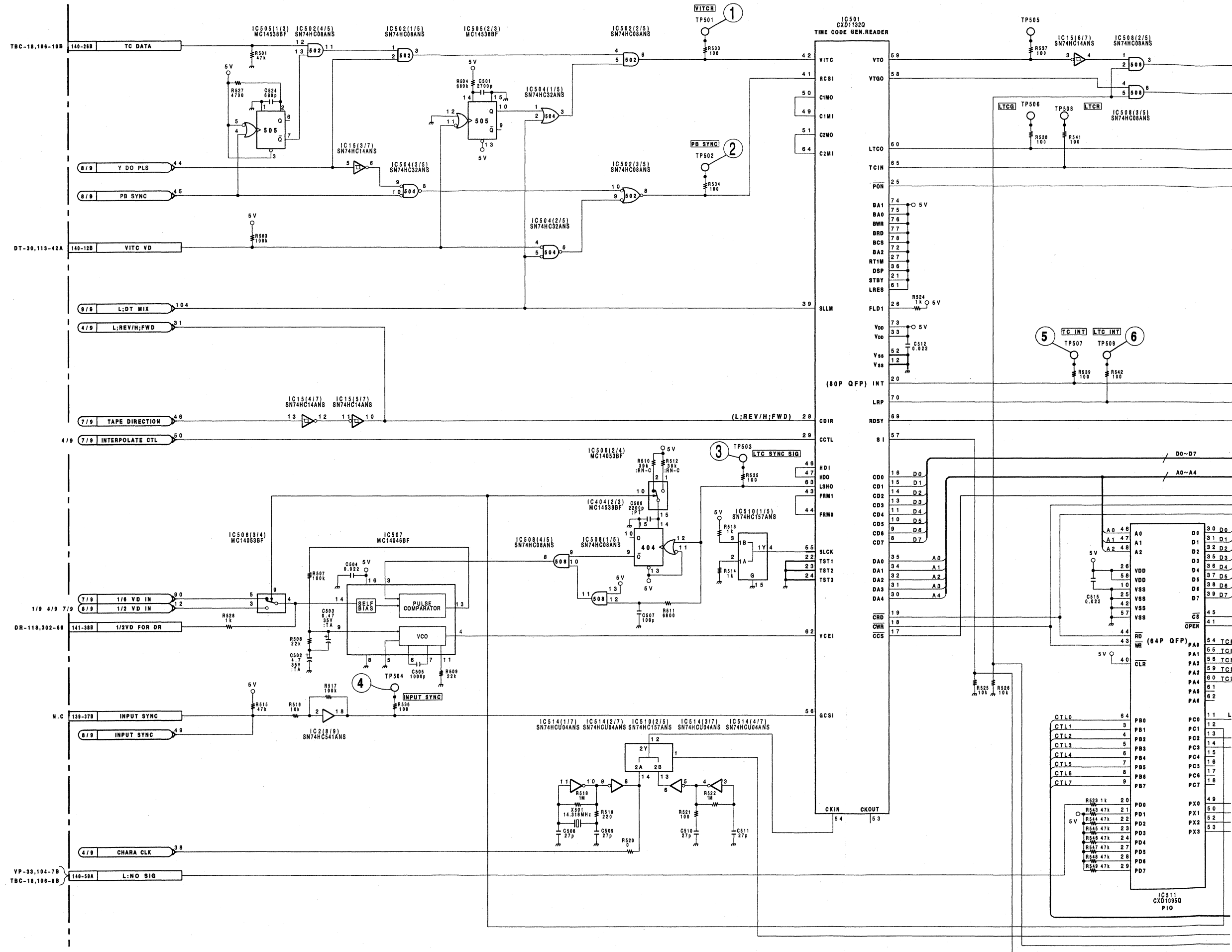
① TP 606
PB



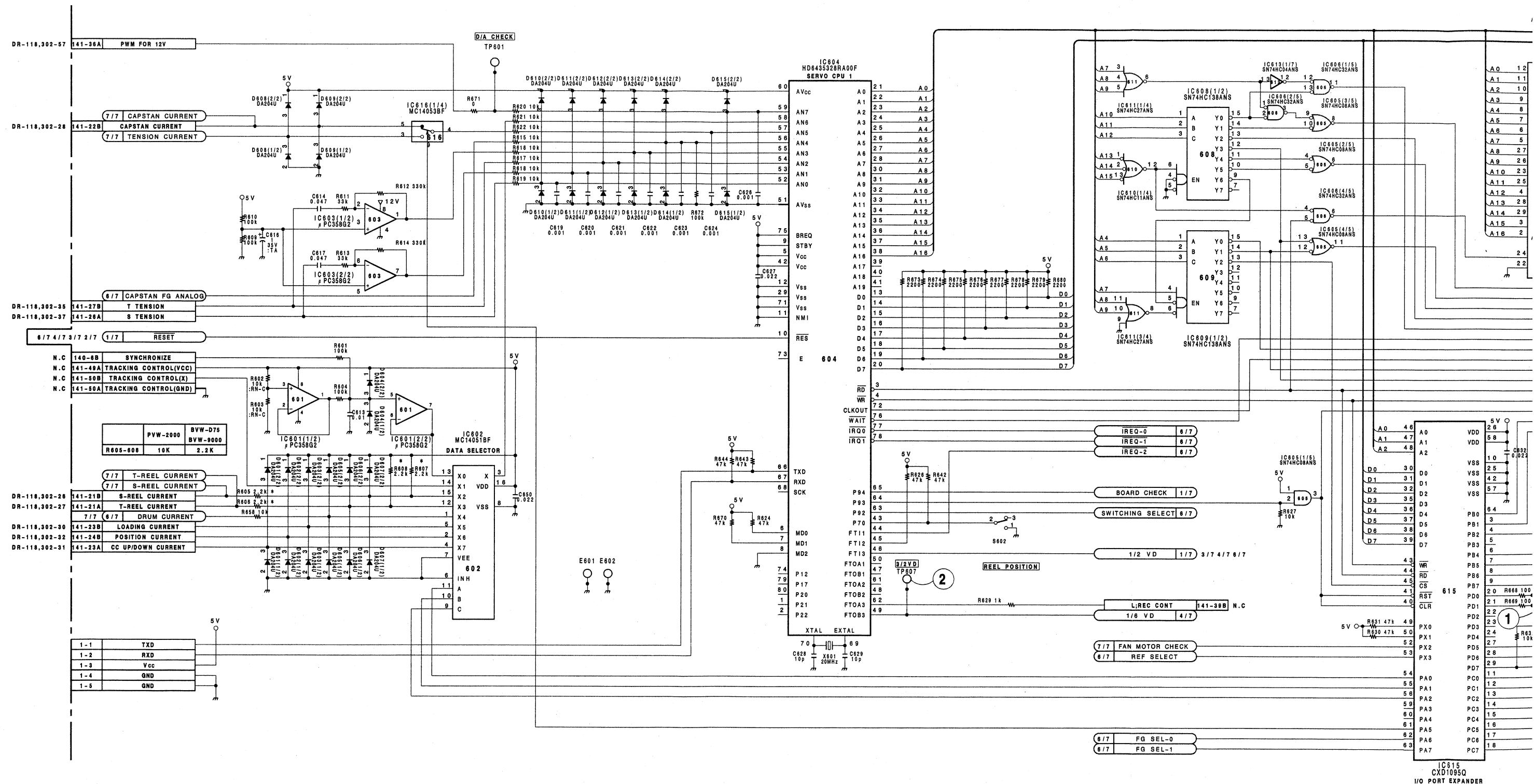
② TP 607
PB/EE

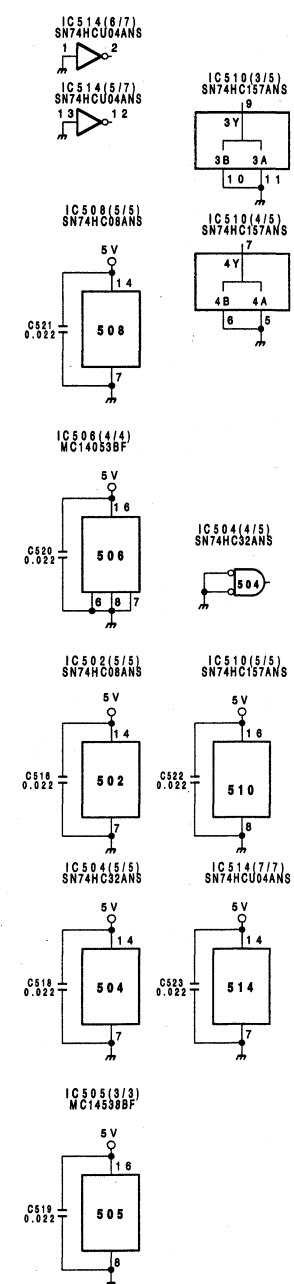


SS-48P(6/9);TC GEN/READER

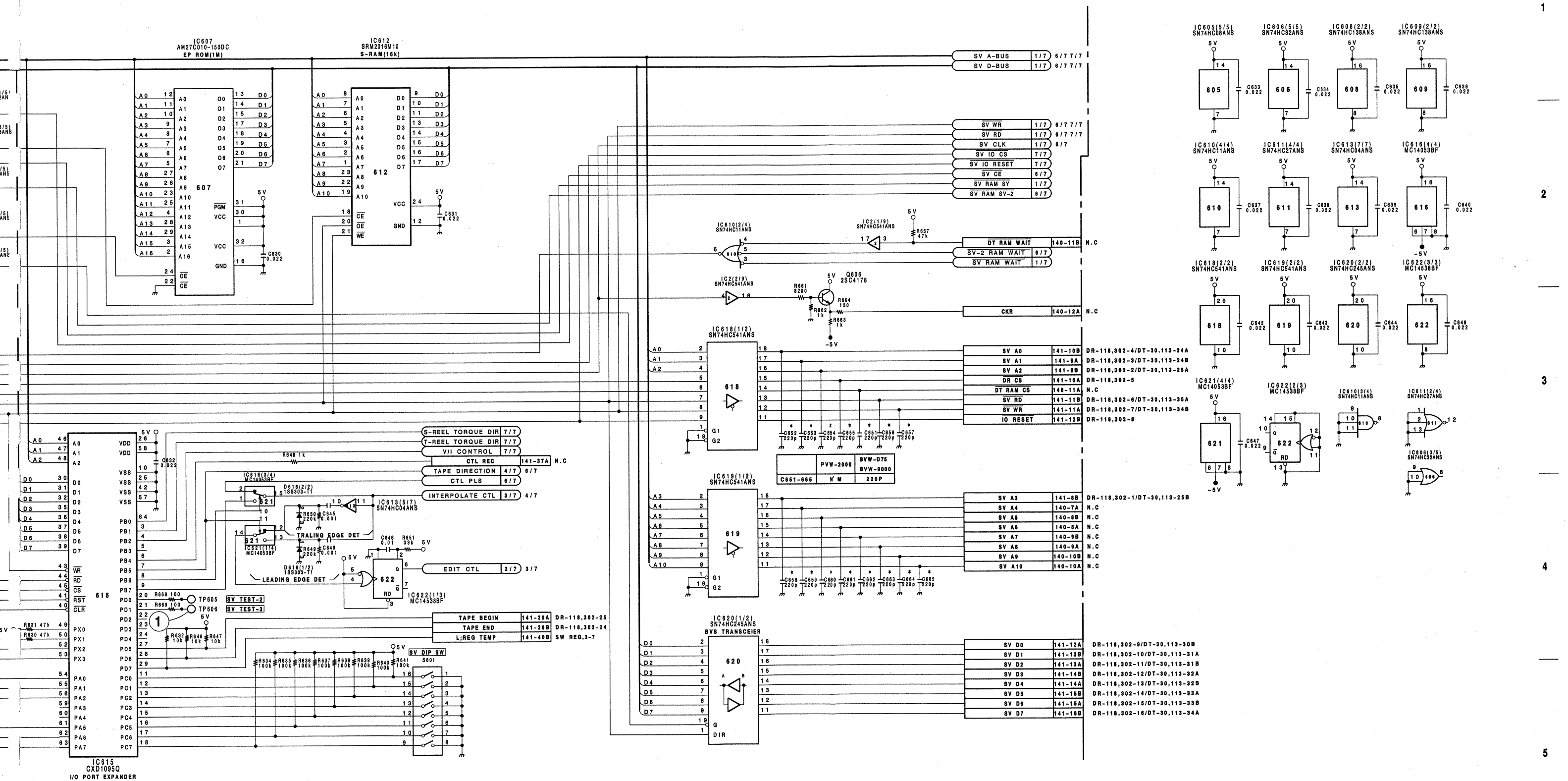


SS-48P(5/7);SERVO SYSTEM MAIN





SS-48P BOARD (6 / 9)
BOARD NO.1-640-029-12
PVW-2650P(EK);#10001-10495



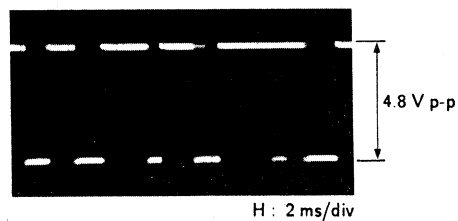
SS-48P BOARD (5/7)

BOARD NO.1-640-029-13
PVW-2650P ;#10496-

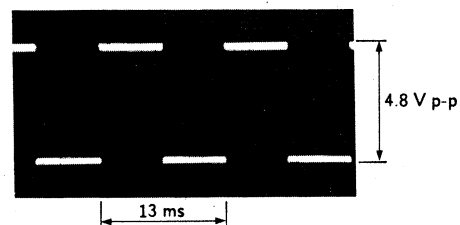
SS-48P(1-640-029-12)

TP5 P-2
 TP6 P-2
 TP101 L-6
 TP102 K-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-6
 TP402 N-2
 TP403 K-4
 TP404 Q-7
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 G-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP602 B-2
 TP603 B-2
 TP604 B-1
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 F-2
 TP705 C-4
 TP706 D-4
 TP708 C-1
 TP709 A-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 A-6
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 A-6
 TP804 B-7
 TP805 D-7
 TP806 D-1

① TP 606
PB



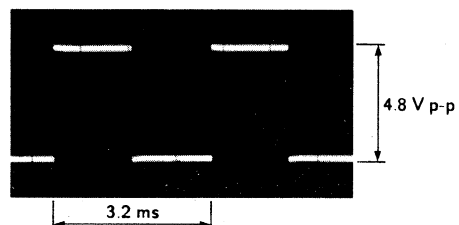
② TP 607
PB/EE



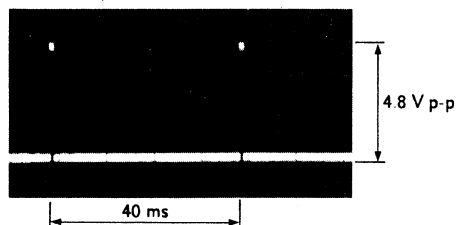
SS-48P(1-640-029-13)

TP5 R-2
 TP6 R-2
 TP101 K-5
 TP102 L-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-1
 TP403 K-4
 TP404 K-6
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 H-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 E-2
 TP705 C-4
 TP706 E-4
 TP708 C-1
 TP709 B-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 B-6
 TP716 D-1
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 B-6
 TP804 B-7
 TP805 C-7
 TP806 D-1

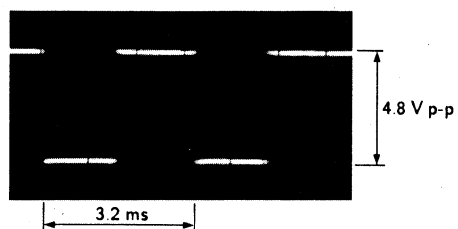
① TP 705
 PB/EE



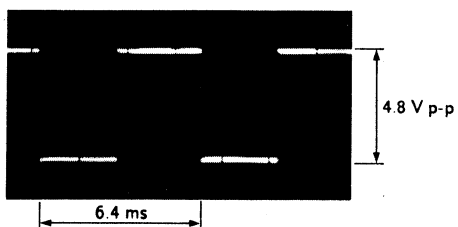
② TP 706
 PB/EE



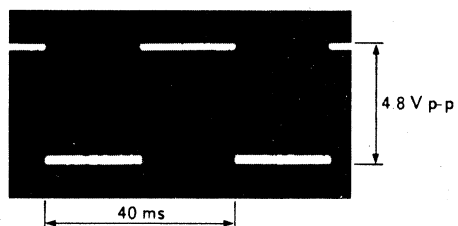
③ TP 713
 PB



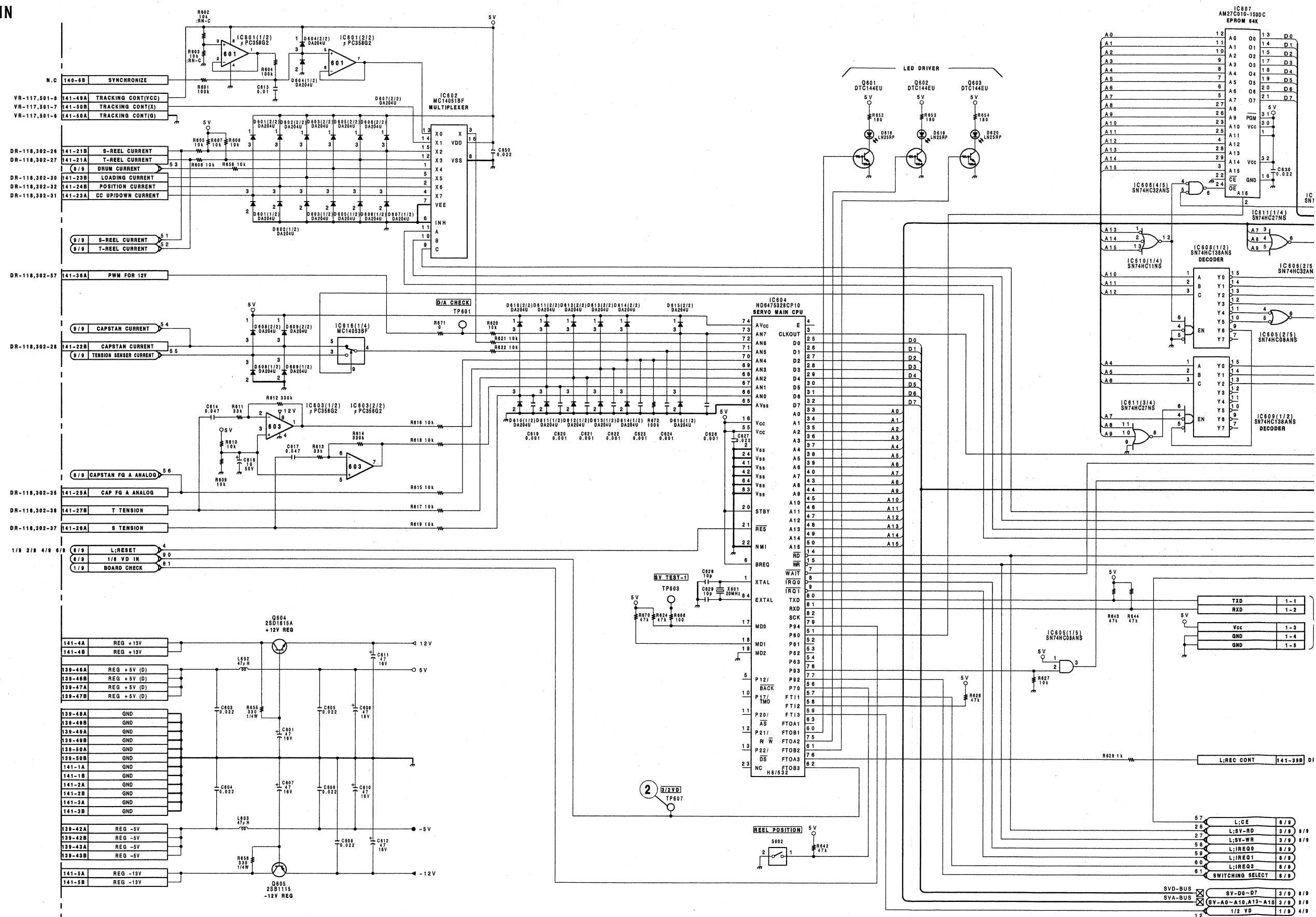
④ TP 715
 PB



⑤ TP 717
 PB/EE



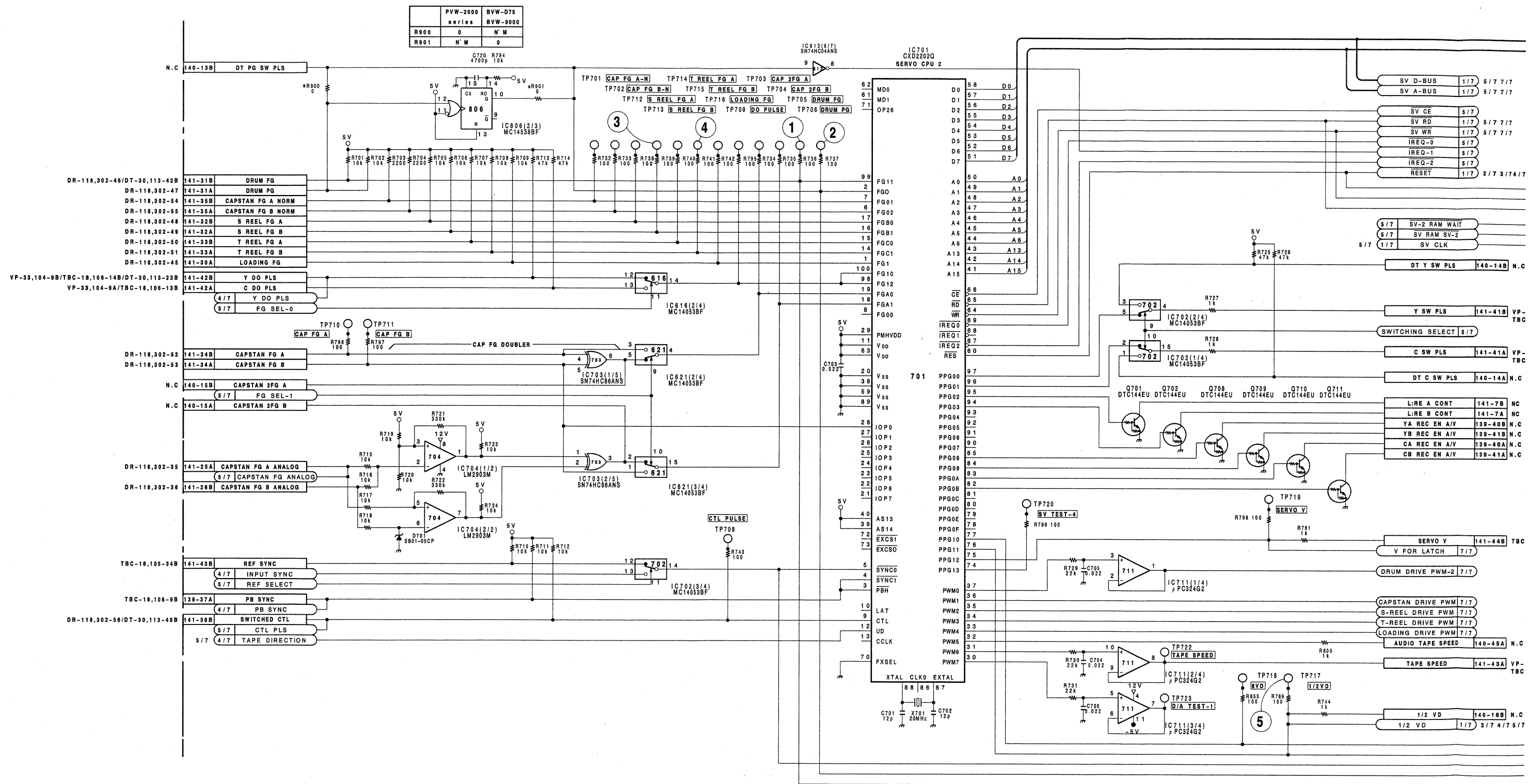
SS-48P(7/9);SERVO SYSTEM MAIN

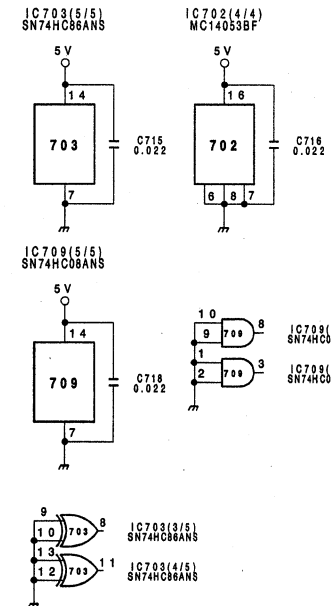
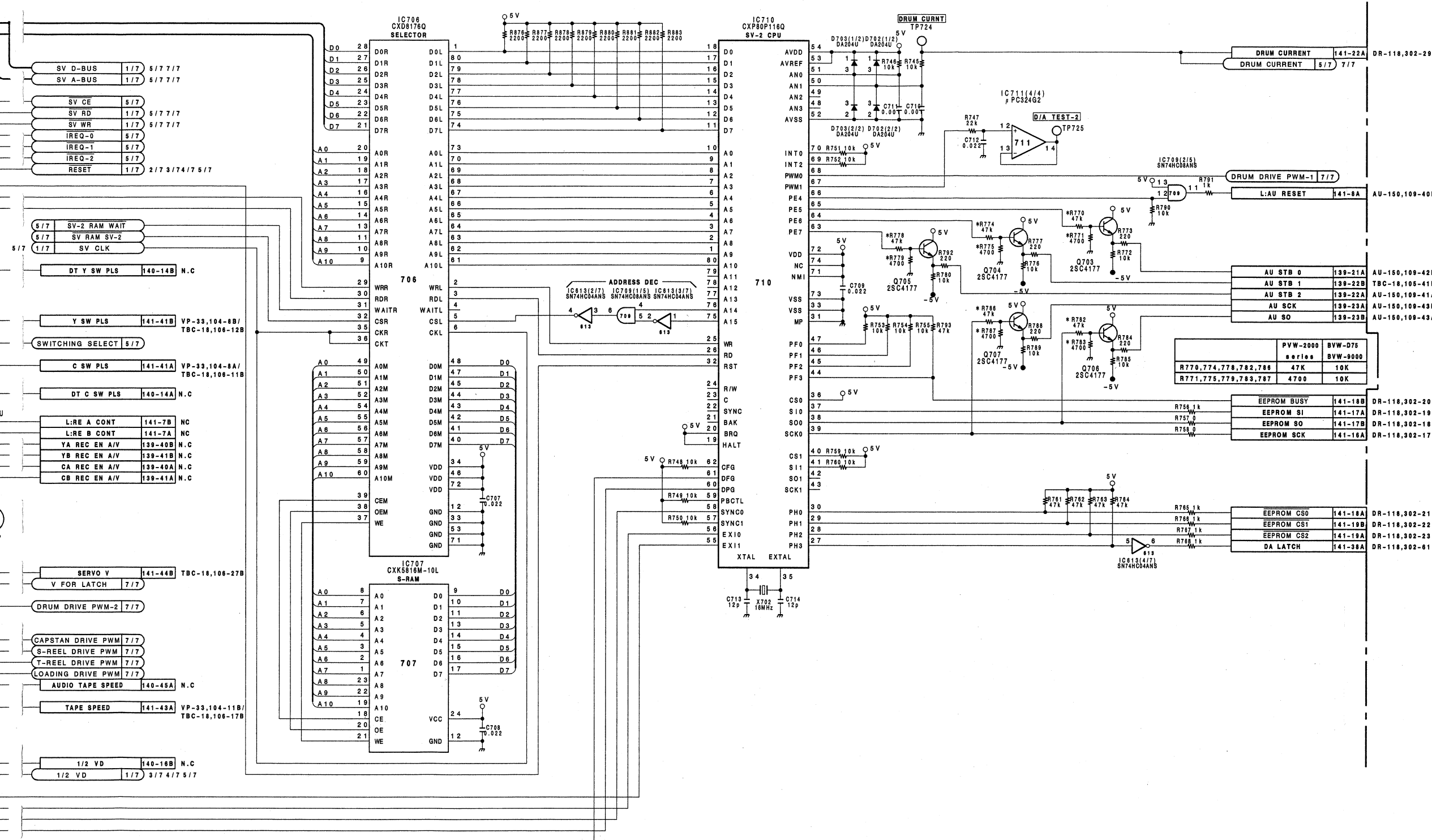




16-107(a)

SS-48P(6/7);SERVO SYSTEM MAIN





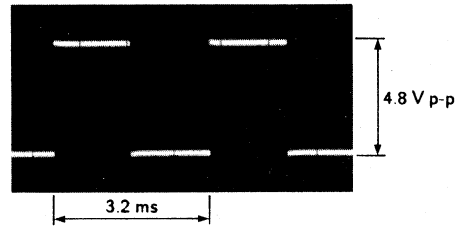
SS-48P BOARD (6/7)

BOARD NO.1-640-029-13
PVW-2650P ;#10496-

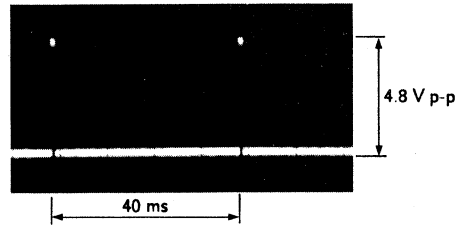
SS-48P(1-640-029-12)

TP5 P-2
 TP6 P-2
 TP101 L-6
 TP102 K-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-6
 TP402 N-2
 TP403 K-4
 TP404 Q-7
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 G-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP602 B-2
 TP603 B-2
 TP604 B-1
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 F-2
 TP705 C-4
 TP706 D-4
 TP708 C-1
 TP709 A-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 A-6
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 A-6
 TP804 B-7
 TP805 D-7
 TP806 D-1

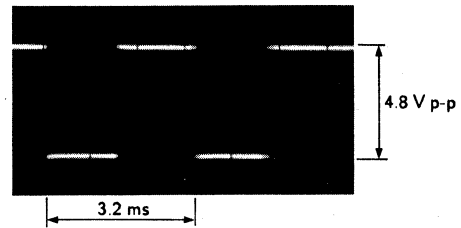
① TP 705
PB/EE



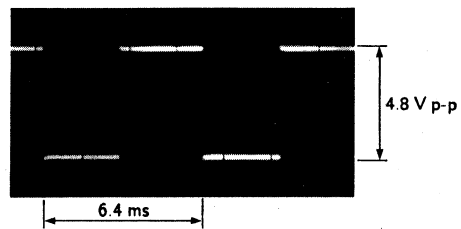
② TP 706
PB/EE



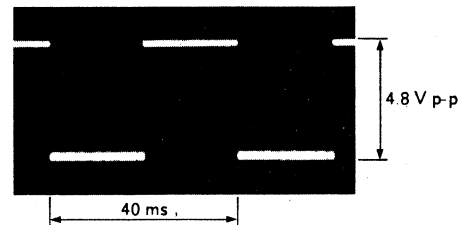
③ TP 713
PB



④ TP 715
PB



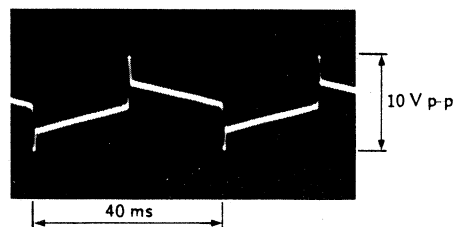
⑤ TP 717
PB/EE



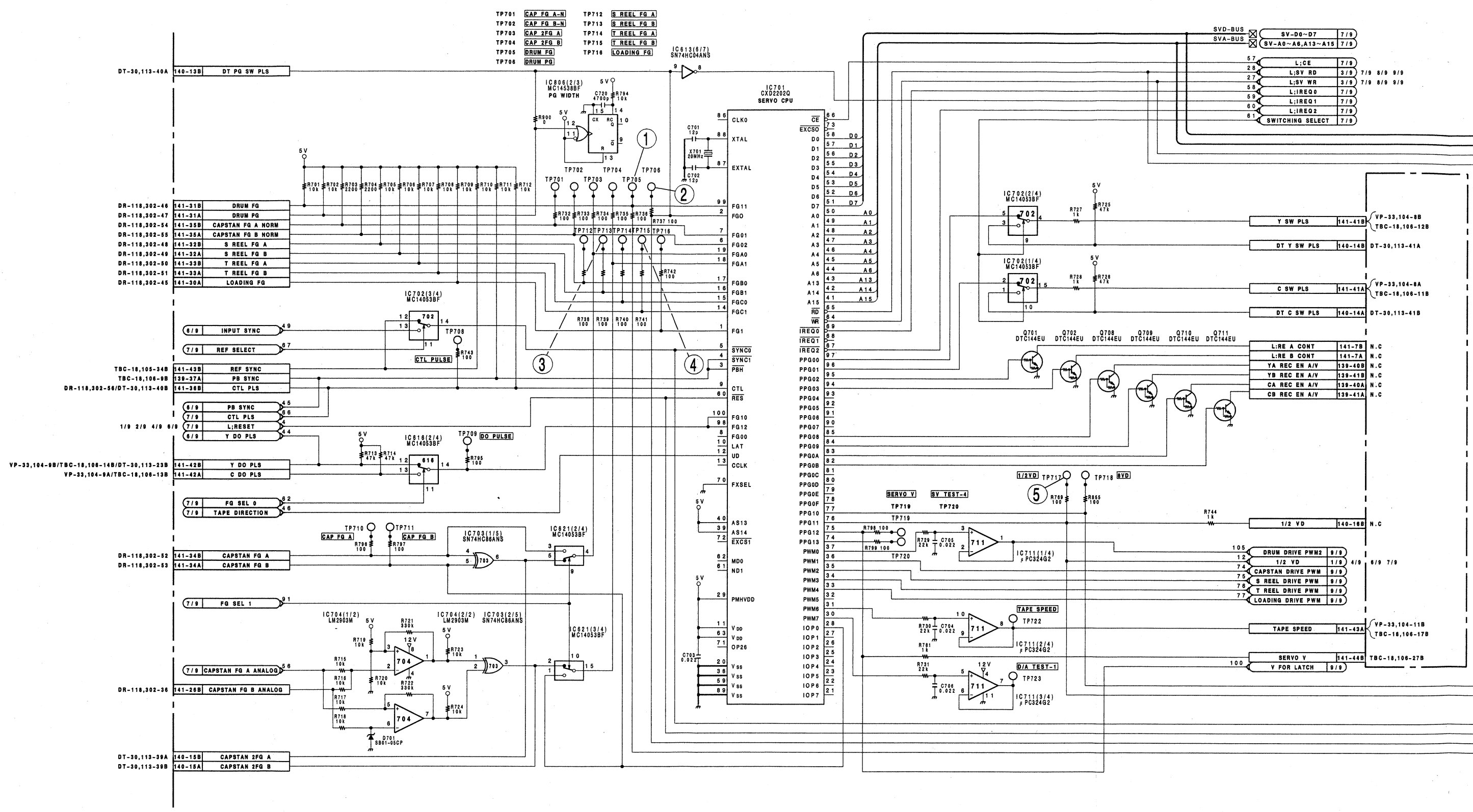
SS-48P(1-640-029-13)

TP5 R-2
 TP6 R-2
 TP101 K-5
 TP102 L-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-1
 TP403 K-4
 TP404 K-6
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 H-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 E-2
 TP705 C-4
 TP706 E-4
 TP708 C-1
 TP709 B-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 B-6
 TP716 D-1
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 B-6
 TP804 B-7
 TP805 C-7
 TP806 D-1

① TP 806
 PB



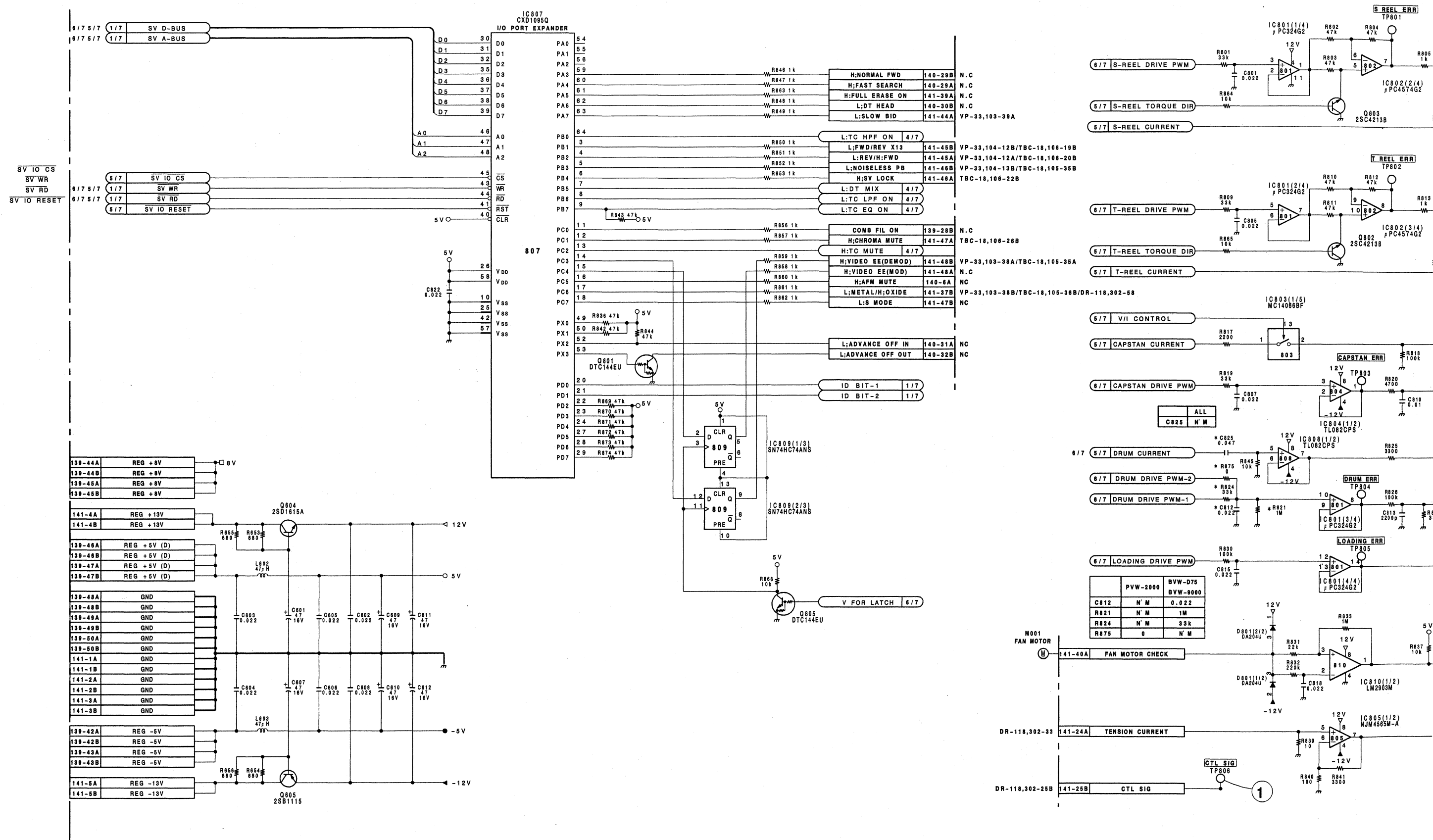
SS-48P(8/9);SERVO SYSTEM MAIN

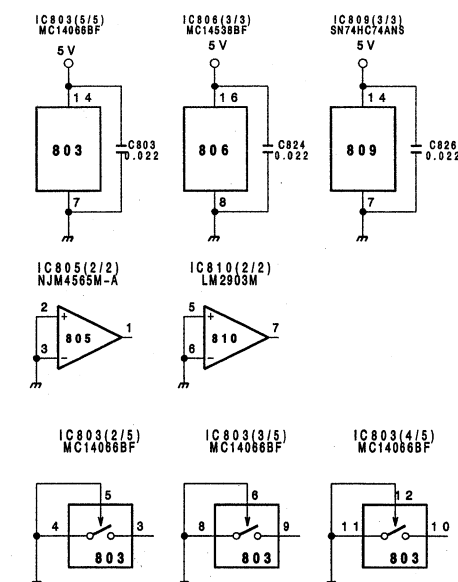
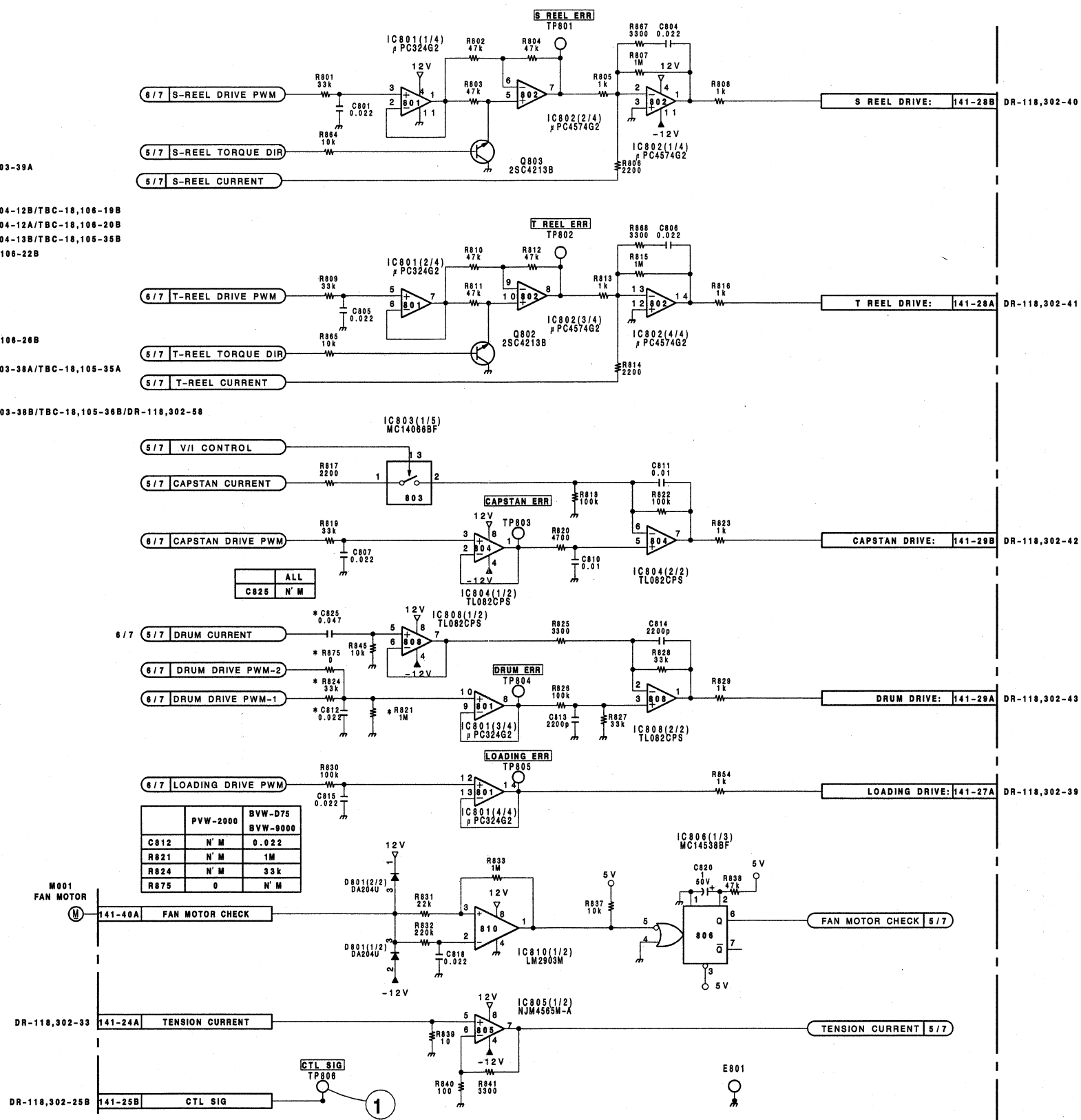
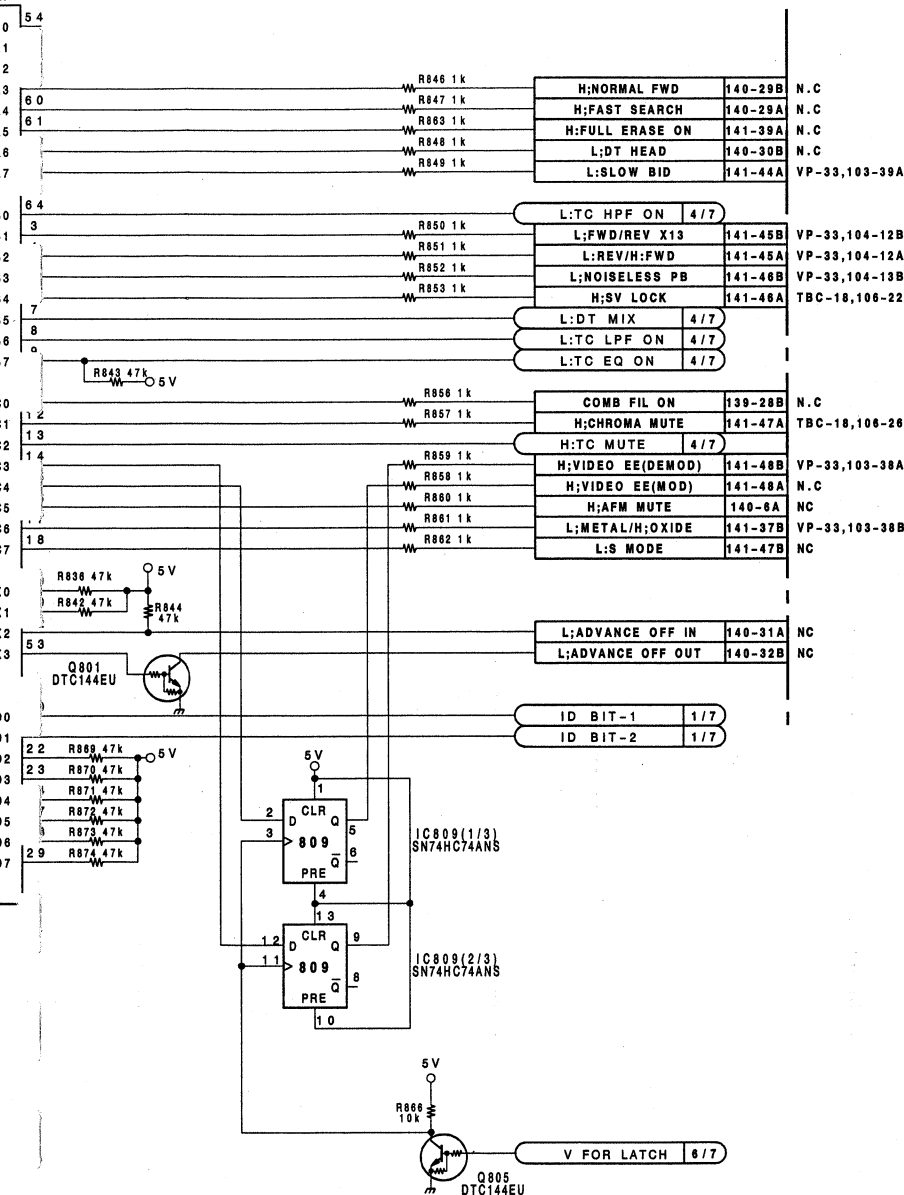




5

SS-48P(7/7);MOTOR PRE DRIVER,MODE CONTROL





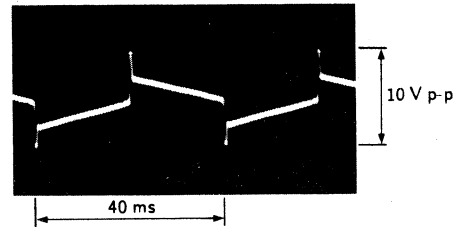
SS-48P BOARD (7/7)

BOARD NO.1-640-029-13
PVW-2650P ;#10496-

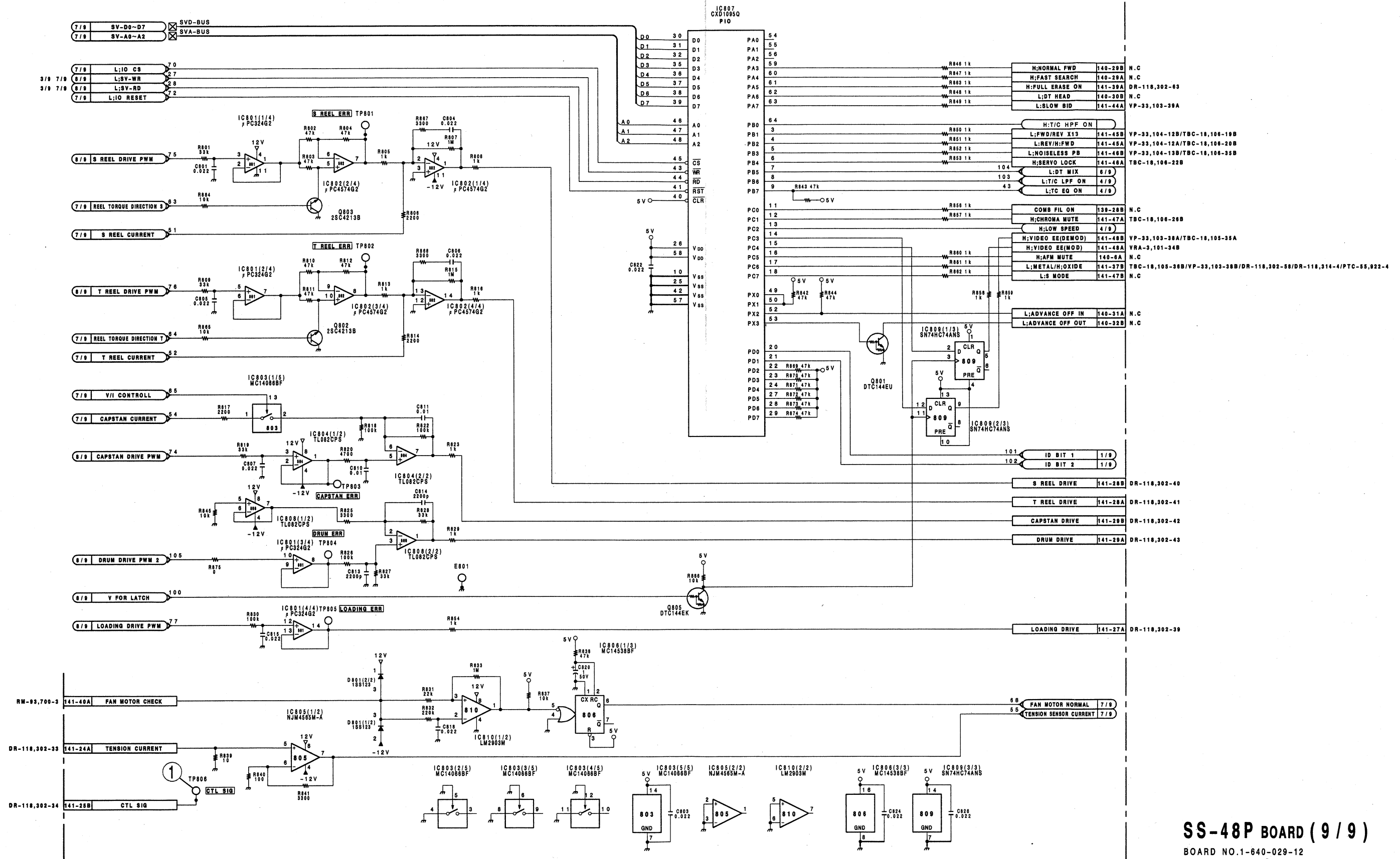
SS-48P(1-640-029-12)

TP5 P-2
 TP6 P-2
 TP101 L-6
 TP102 K-5
 TP103 L-7
 TP104 L-7
 TP105 L-4
 TP401 J-6
 TP402 N-2
 TP403 K-4
 TP404 Q-7
 TP408 J-1
 TP501 G-3
 TP502 F-2
 TP503 F-4
 TP504 G-3
 TP505 G-3
 TP506 J-4
 TP507 G-1
 TP508 G-4
 TP509 K-3
 TP601 B-4
 TP602 B-2
 TP603 B-2
 TP604 B-1
 TP605 A-1
 TP606 A-1
 TP607 F-1
 TP701 B-3
 TP702 B-6
 TP703 F-2
 TP704 F-2
 TP705 C-4
 TP706 D-4
 TP708 C-1
 TP709 A-4
 TP710 E-3
 TP711 E-3
 TP712 B-3
 TP713 C-7
 TP714 B-4
 TP715 A-6
 TP717 E-1
 TP718 B-4
 TP719 A-3
 TP720 A-3
 TP722 C-5
 TP723 C-5
 TP724 F-7
 TP725 C-5
 TP801 F-7
 TP802 G-7
 TP803 A-6
 TP804 B-7
 TP805 D-7
 TP806 D-1

① TP 806
PB



SS-48P(9/9);MOTOR PRE DRIVER,MODE CONTROL



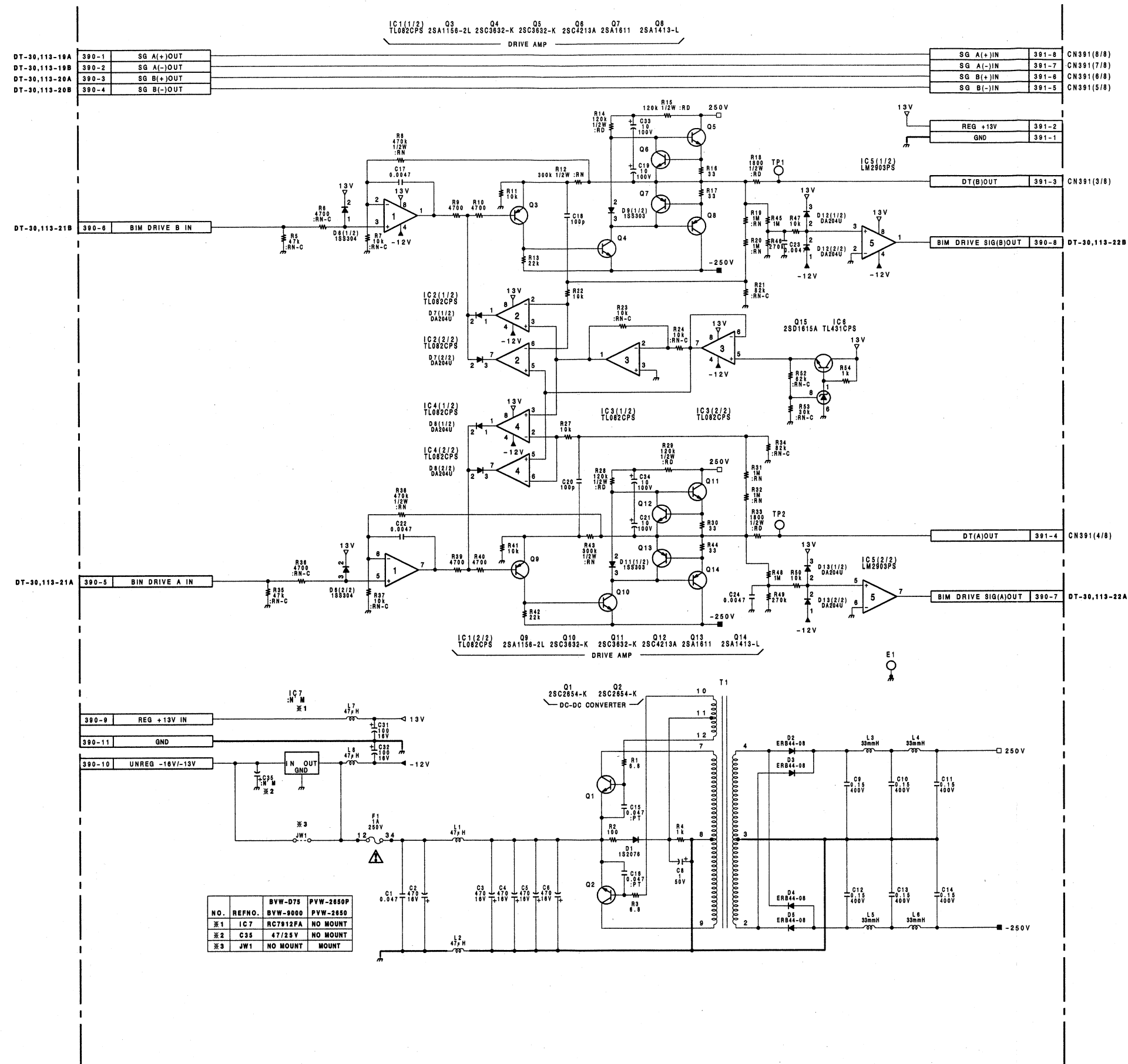
SS-48P BOARD (9/9)

BOARD NO.1-640-029-12
PVW-2650P(EK);#10001-10495

DT-29AP(1-640-693-21)

TP1 A-21
TP2 A-23

DT-29AP;DYNAMIC TRACKING



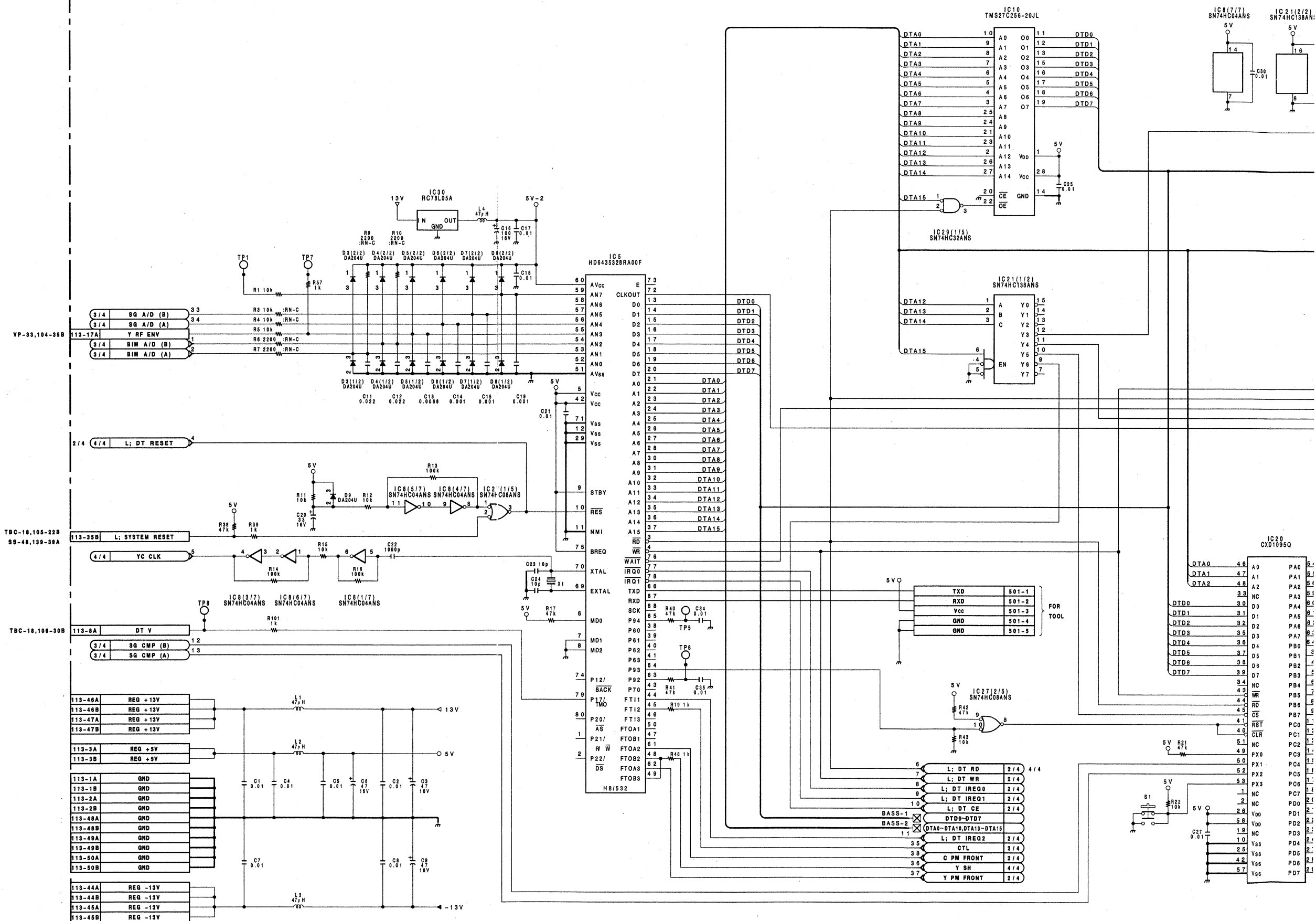
DT-29AP BOARD

BOARD NO.1-640-693-21
PVW-2650P(EK) ;#10001-

DT-30(1-642-567-11)

TP1	C-1
TP5	C-1
TP6	C-1
TP7	G-1
TP8	G-2
TP9	B-5
TP10	C-6
TP101	A-6
TP102	A-7
TP103	A-6
TP104	A-6
TP105	G-1
TP106	C-5
TP107	B-6
TP108	D-5
TP109	D-4
TP201	F-1
TP203	F-5
TP204	F-1
TP205	F-1
TP207	E-5
TP208	F-1
TP301	G-1
TP302	F-5
TP304	G-2

DT-30(1/4);DYNAMIC TRACKING



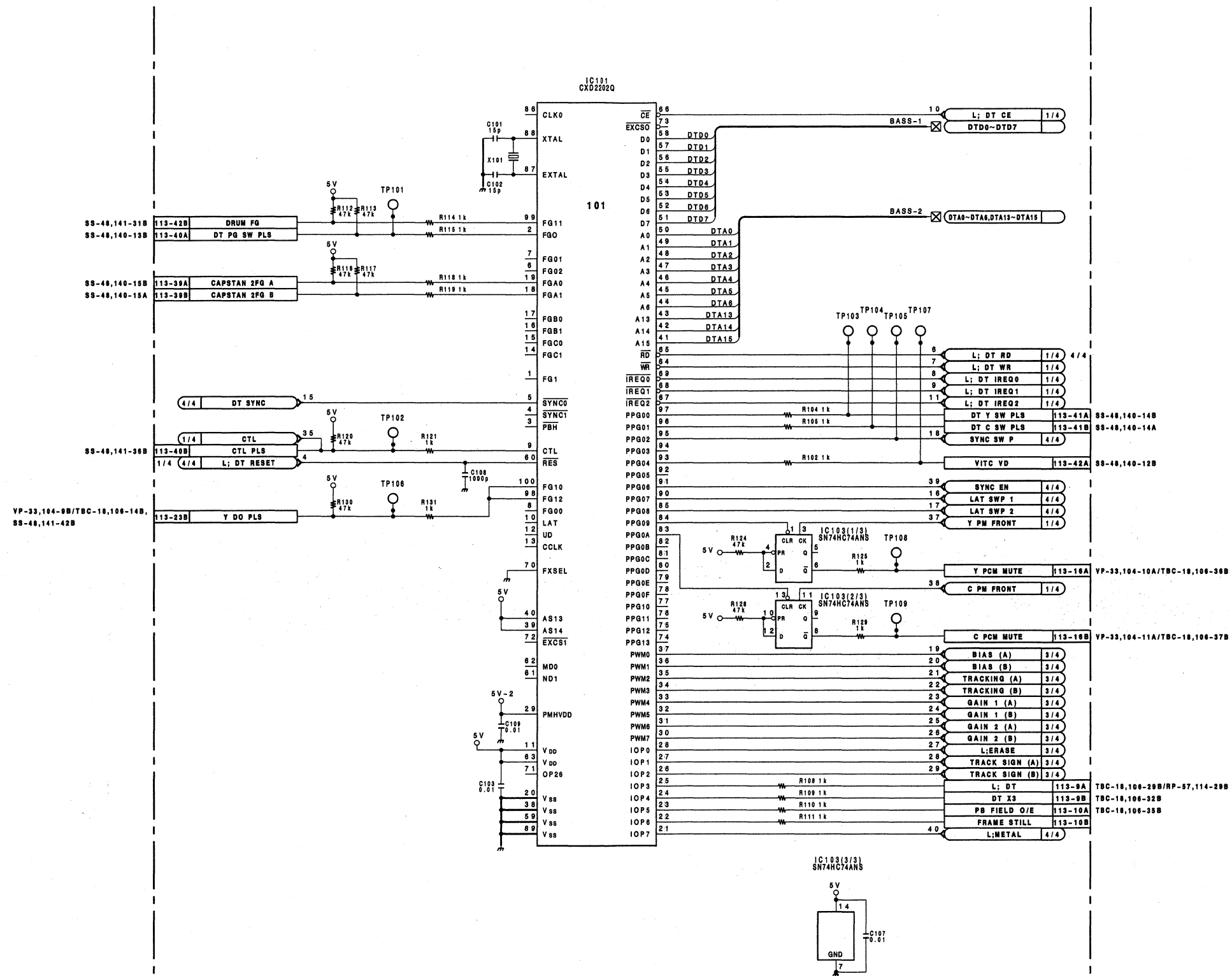


16-123

DT-30(1-642-567-11)

TP1	C-1
TP5	C-1
TP6	C-1
TP7	G-1
TP8	G-2
TP9	B-5
TP10	C-6
TP101	A-6
TP102	A-7
TP103	A-6
TP104	A-6
TP105	G-1
TP106	C-5
TP107	B-6
TP108	D-5
TP109	D-4
TP201	F-1
TP203	F-5
TP204	F-1
TP205	F-1
TP207	E-5
TP208	F-1
TP301	G-1
TP302	F-5
TP304	G-2

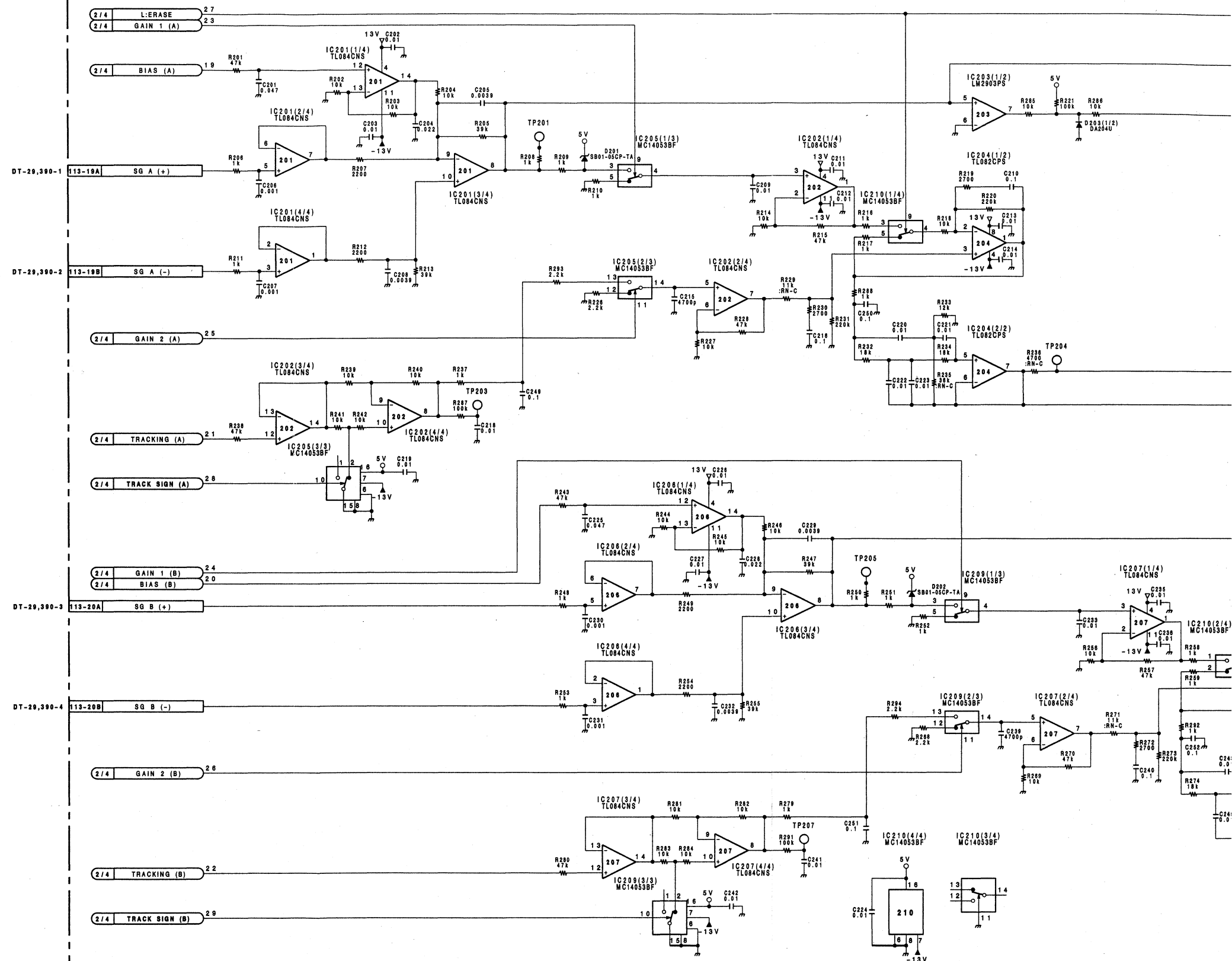
DT-30(2/4);DYNAMIC TRACKING

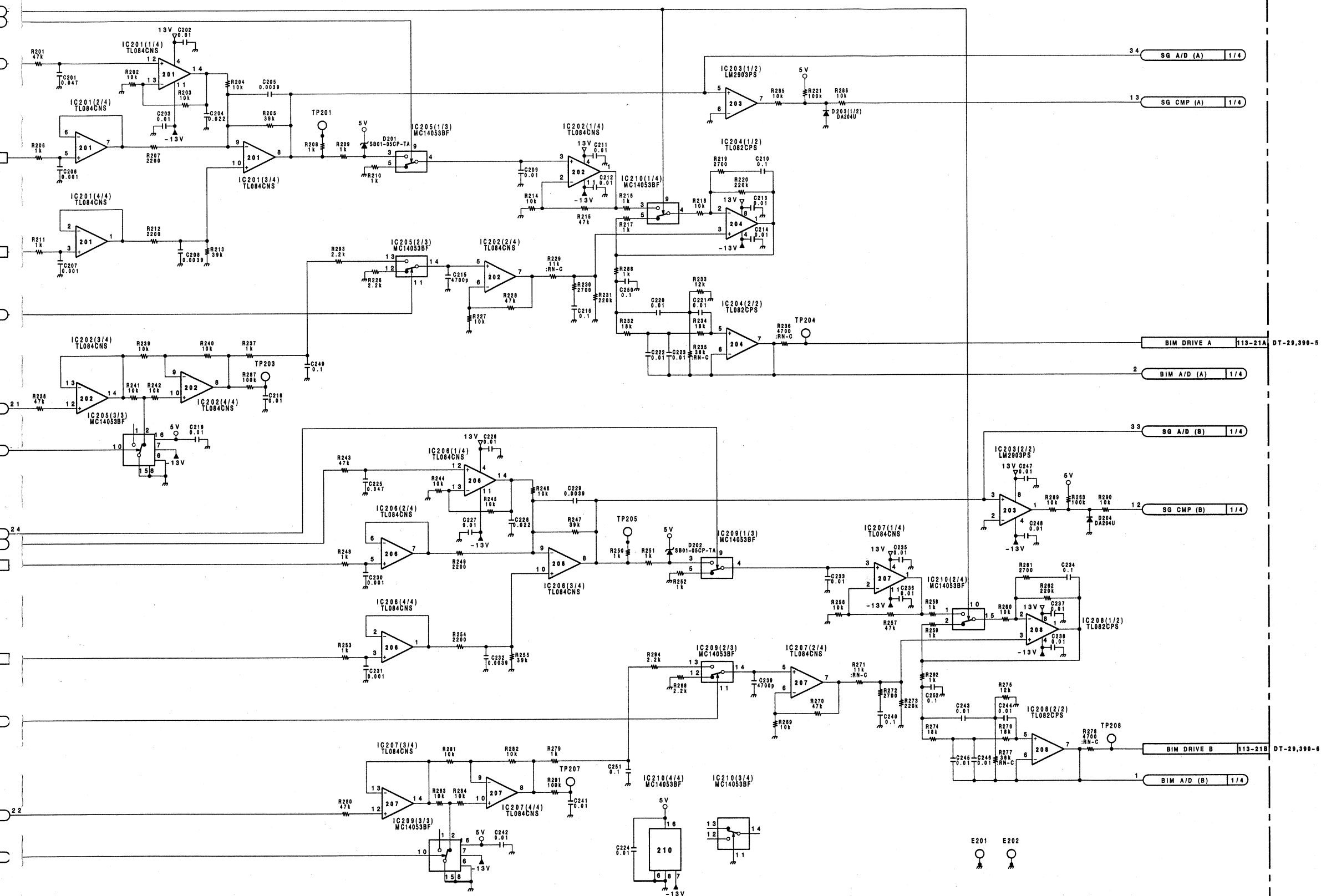


DT-30(1-642-567-11)

TP1	C-1
TP5	C-1
TP6	C-1
TP7	G-1
TP8	G-2
TP9	B-5
TP10	C-6
TP101	A-6
TP102	A-7
TP103	A-6
TP104	A-6
TP105	G-1
TP106	C-5
TP107	B-6
TP108	D-5
TP109	D-4
TP201	F-1
TP203	F-5
TP204	F-1
TP205	F-1
TP207	E-5
TP208	F-1
TP301	G-1
TP302	F-5
TP304	G-2

DT-30(3/4);DYNAMIC TRACKING



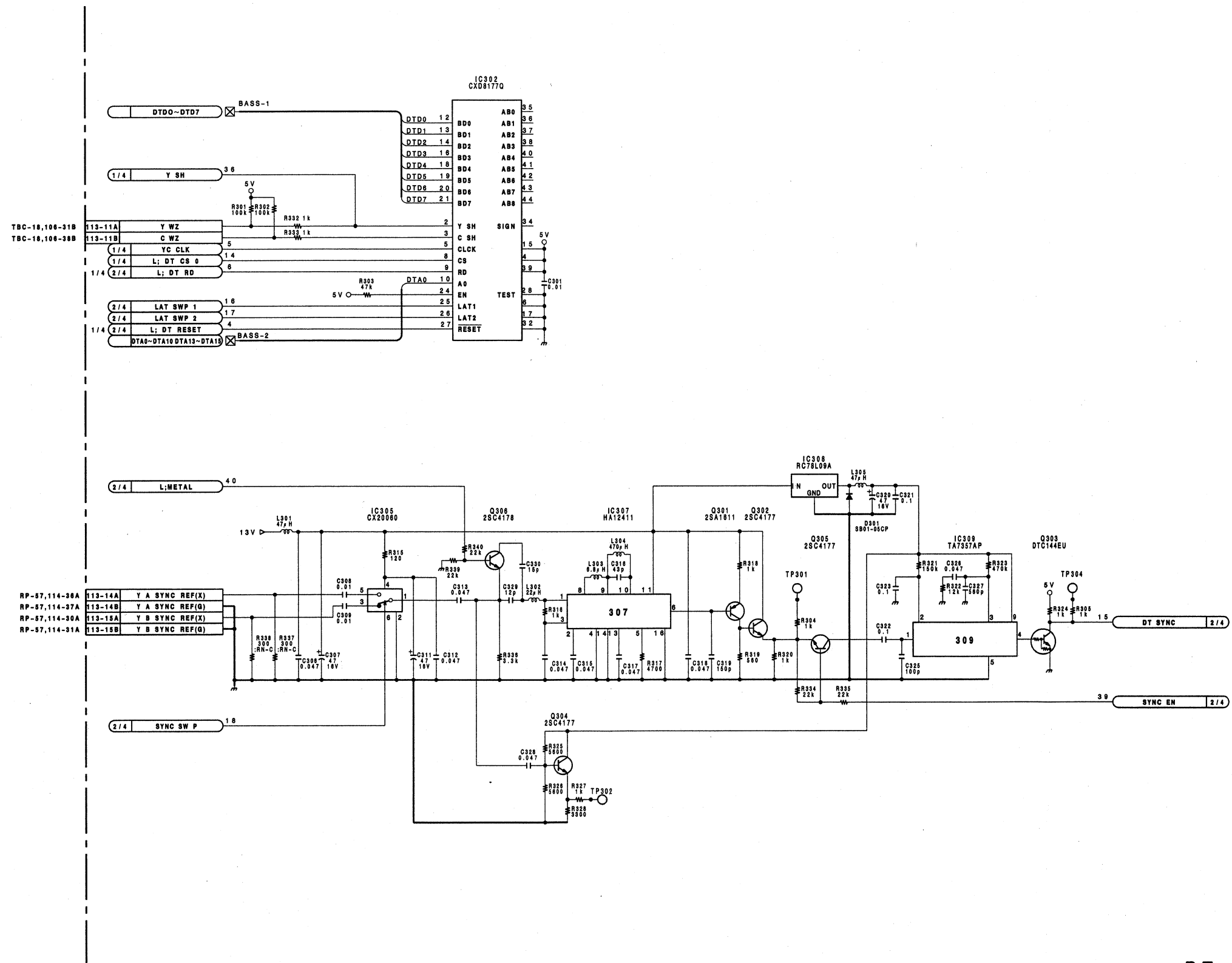


DT-30 BOARD (3/4)

BOARD NO.1-642-567-11
PVW-2650P(EK);#10001-

DT-30(1-642-567-11)

TP1	C-1
TP5	C-1
TP6	C-1
TP7	G-1
TP8	G-2
TP9	B-5
TP10	C-6
TP101	A-6
TP102	A-7
TP103	A-6
TP104	A-6
TP105	G-1
TP106	C-5
TP107	B-6
TP108	D-5
TP109	D-4
TP201	F-1
TP203	F-5
TP204	F-1
TP205	F-1
TP207	E-5
TP208	F-1
TP301	G-1
TP302	F-5
TP304	G-2

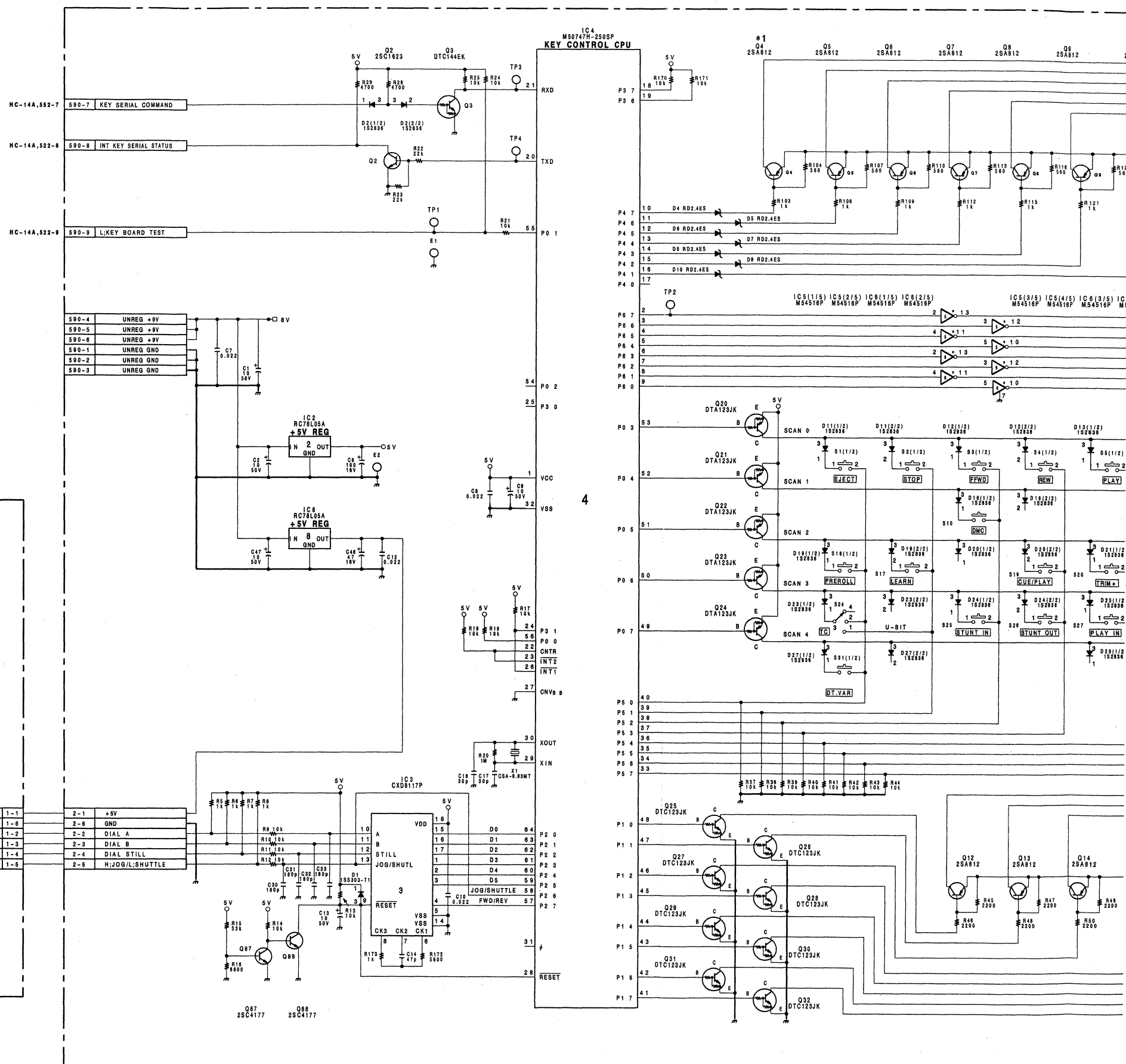


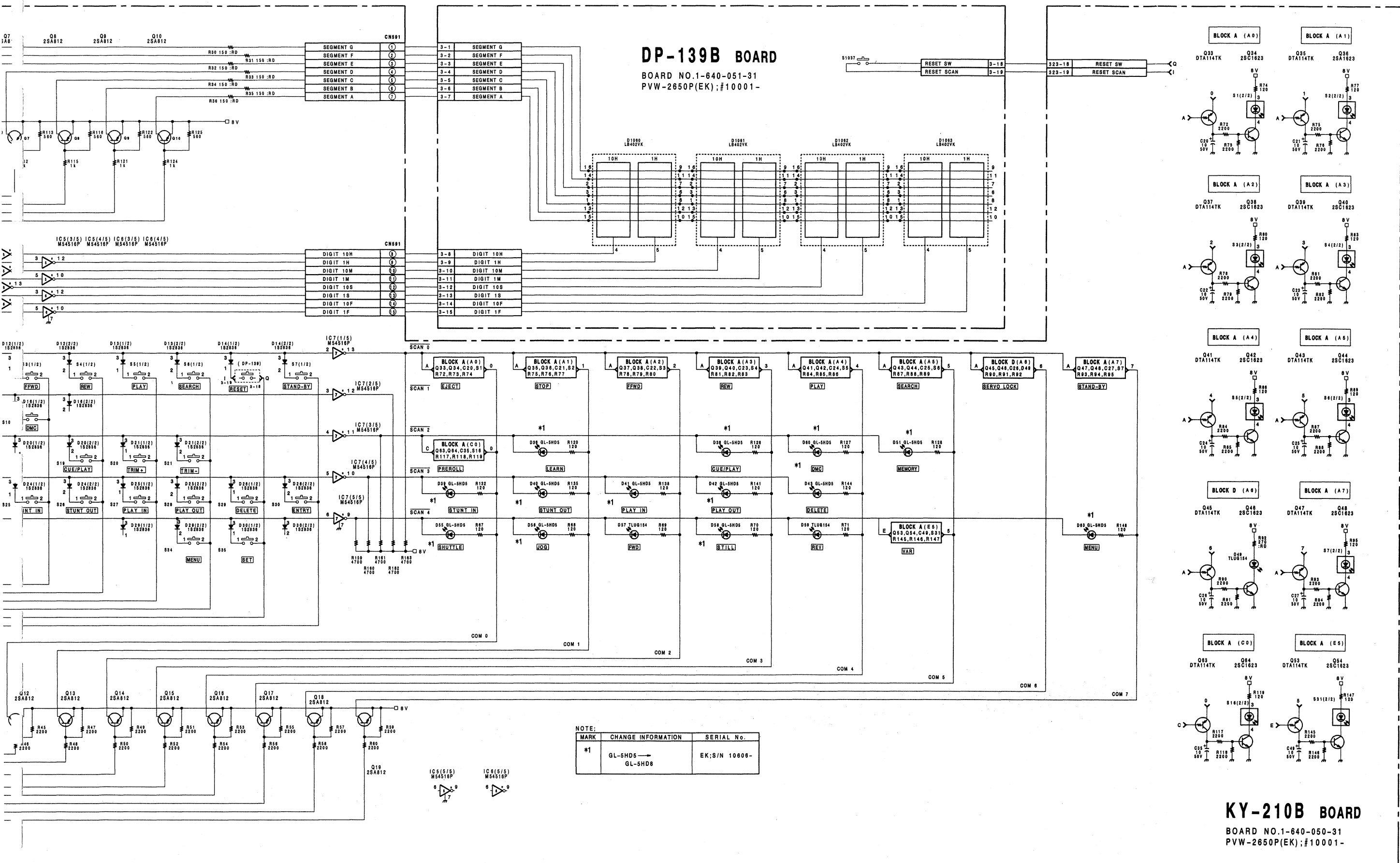
DT-30 BOARD (4 / 4)

BOARD NO.1-642-567-11
PVW-2650P(EK);#10001-

KY-210B(1-640-050-31)

TP1	E-1
TP2	H-3
TP3	E-1
TP4	E-1





1

2

3

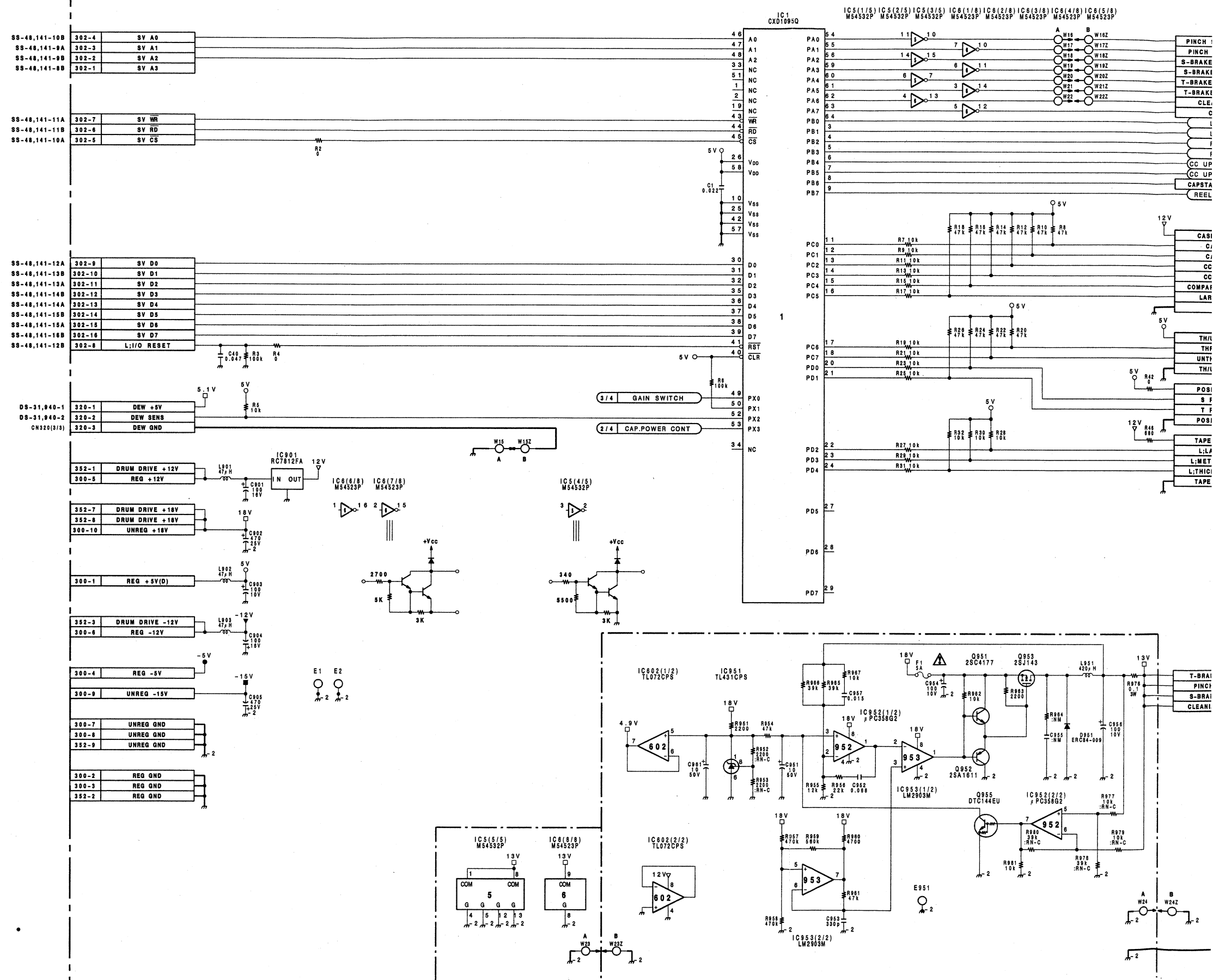
4

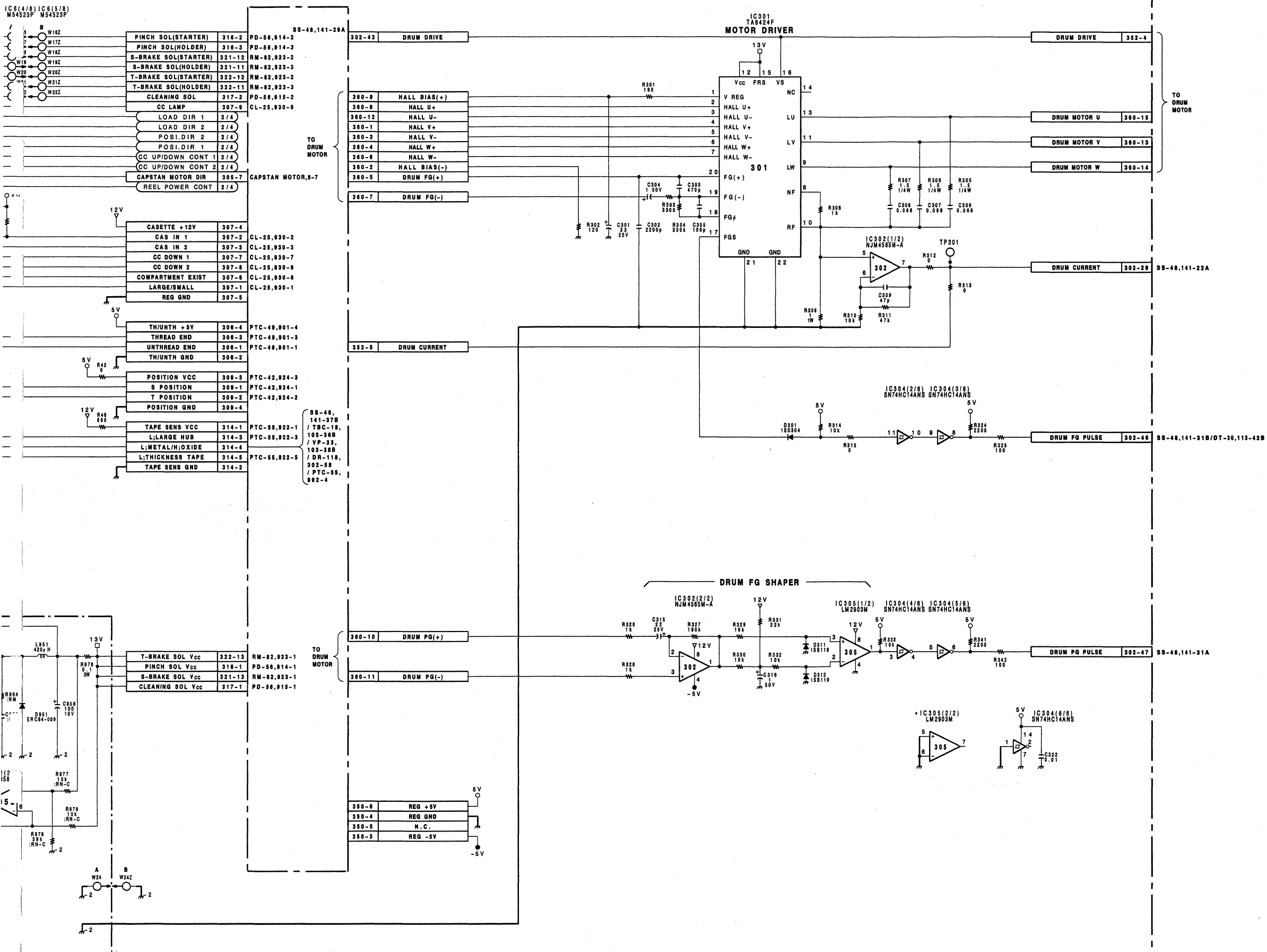
5

DR-118A(1-640-035-24)

TP151	K-5
TP201	G-2
TP202	F-2
TP301	B-4
TP501	C-2
TP601	B-6
TP651	B-6

DR-118A(1/4);MOTOR DRIVER,SOLENOID DRIVER

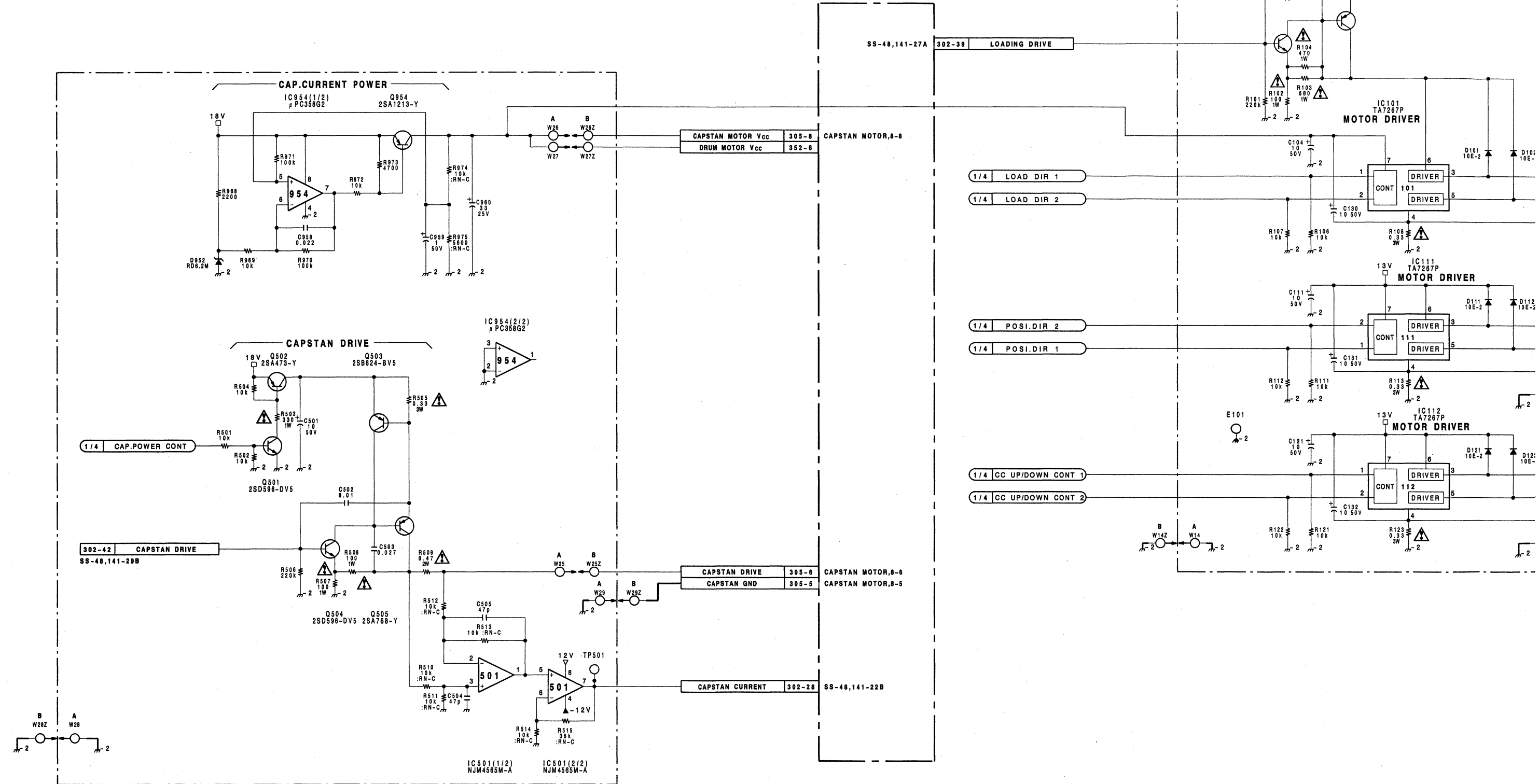


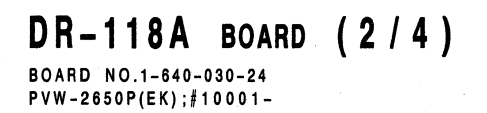


DR-118A(1-640-035-24)

TP151	K-5
TP201	G-2
TP202	F-2
TP301	B-4
TP501	C-2
TP601	B-6
TP651	B-6

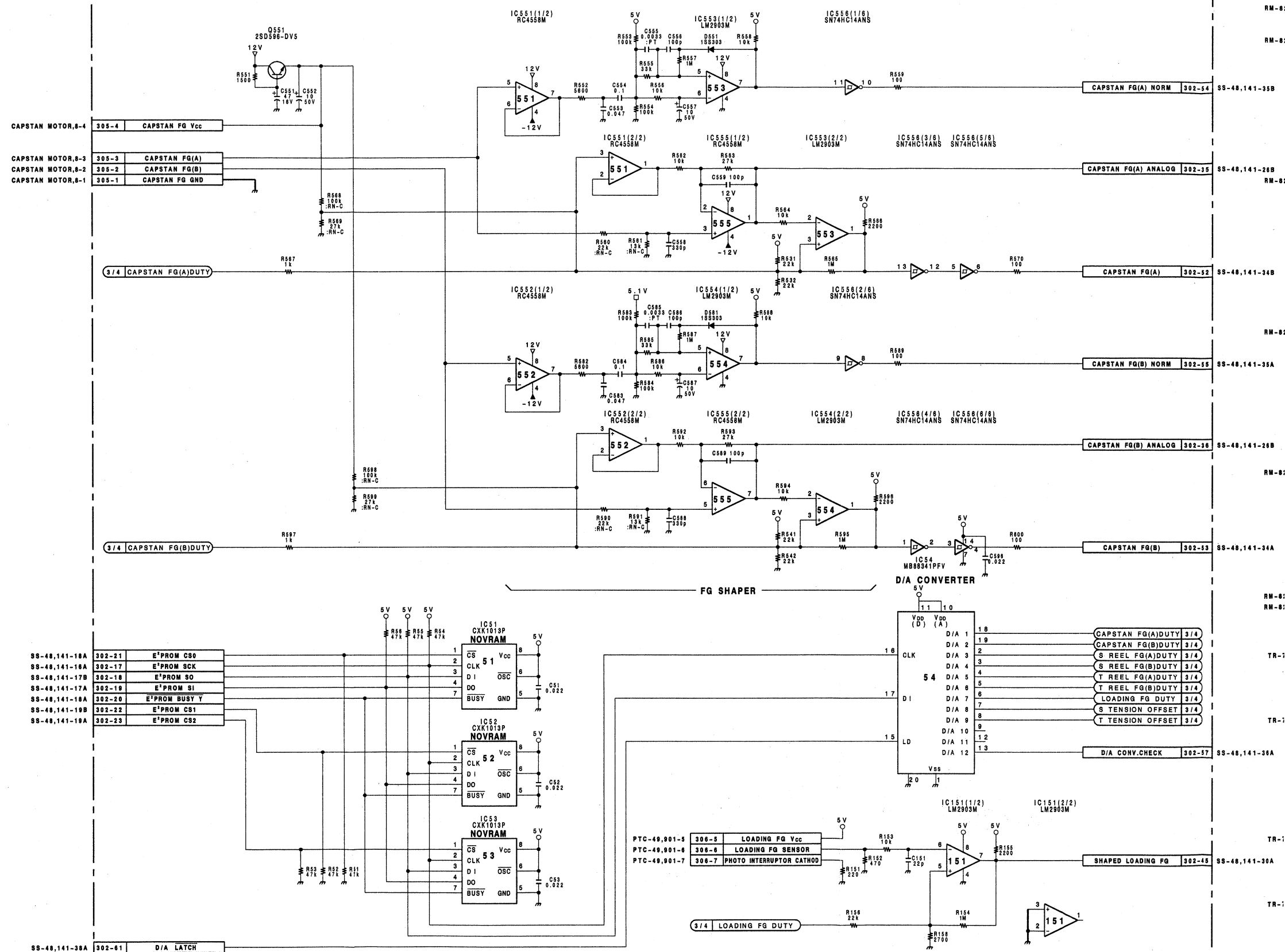
DR-118A(2/4);MOTOR DRIVER

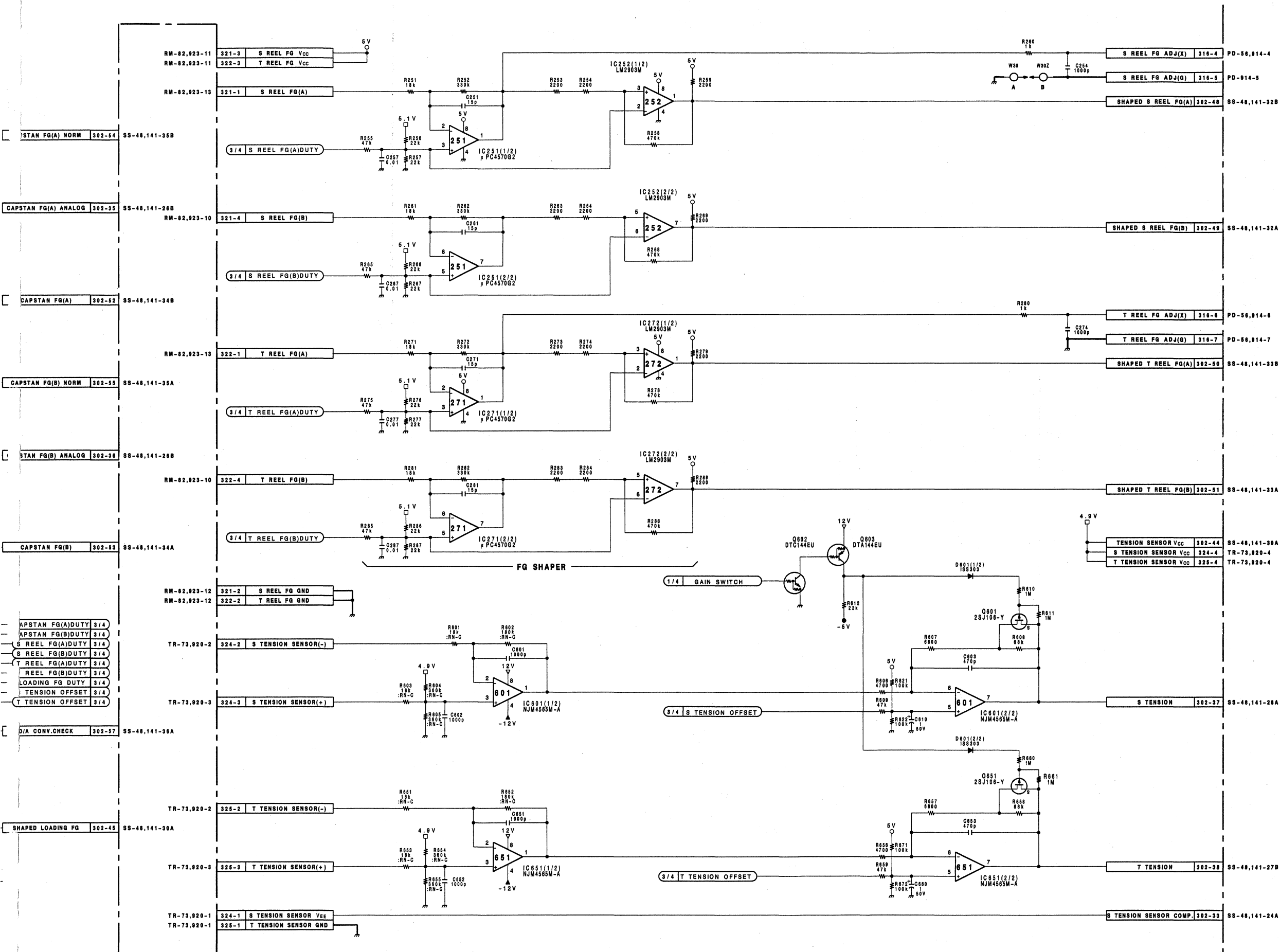




DR-118A(1-640-035-24)

TP151	K-5
TP201	G-2
TP202	F-2
TP301	B-4
TP501	C-2
TP601	B-6
TP651	B-6





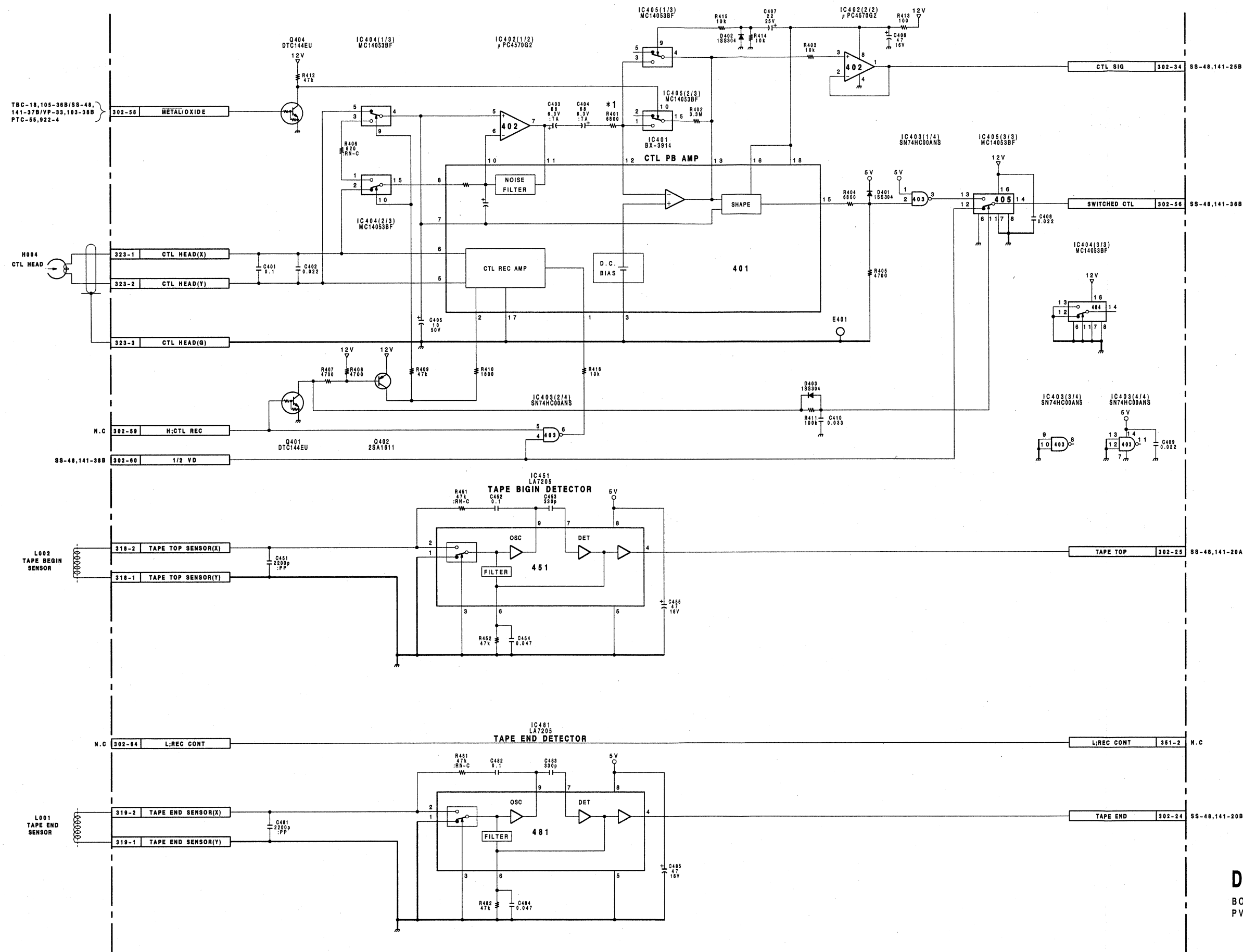
DR-118A BOARD (3 / 4)

BOARD NO.1-640-030-24
PVW-2650P(EK);#10001-

DR-118A(1-640-035-24)

TP151	K-5
TP201	G-2
TP202	F-2
TP301	B-4
TP501	C-2
TP601	B-6
TP651	B-6

DR-118A(4/4);LTC PB,TAPE TOP/END SENSOR



NOTE:		
MARK	CHANGE INFORMATION	SERIAL NO.
*1	R401 6800 → 6200	J; S/N 10151- UC; S/N 10601- EK; S/N 10101-

DR-118A BOARD (4 / 4)

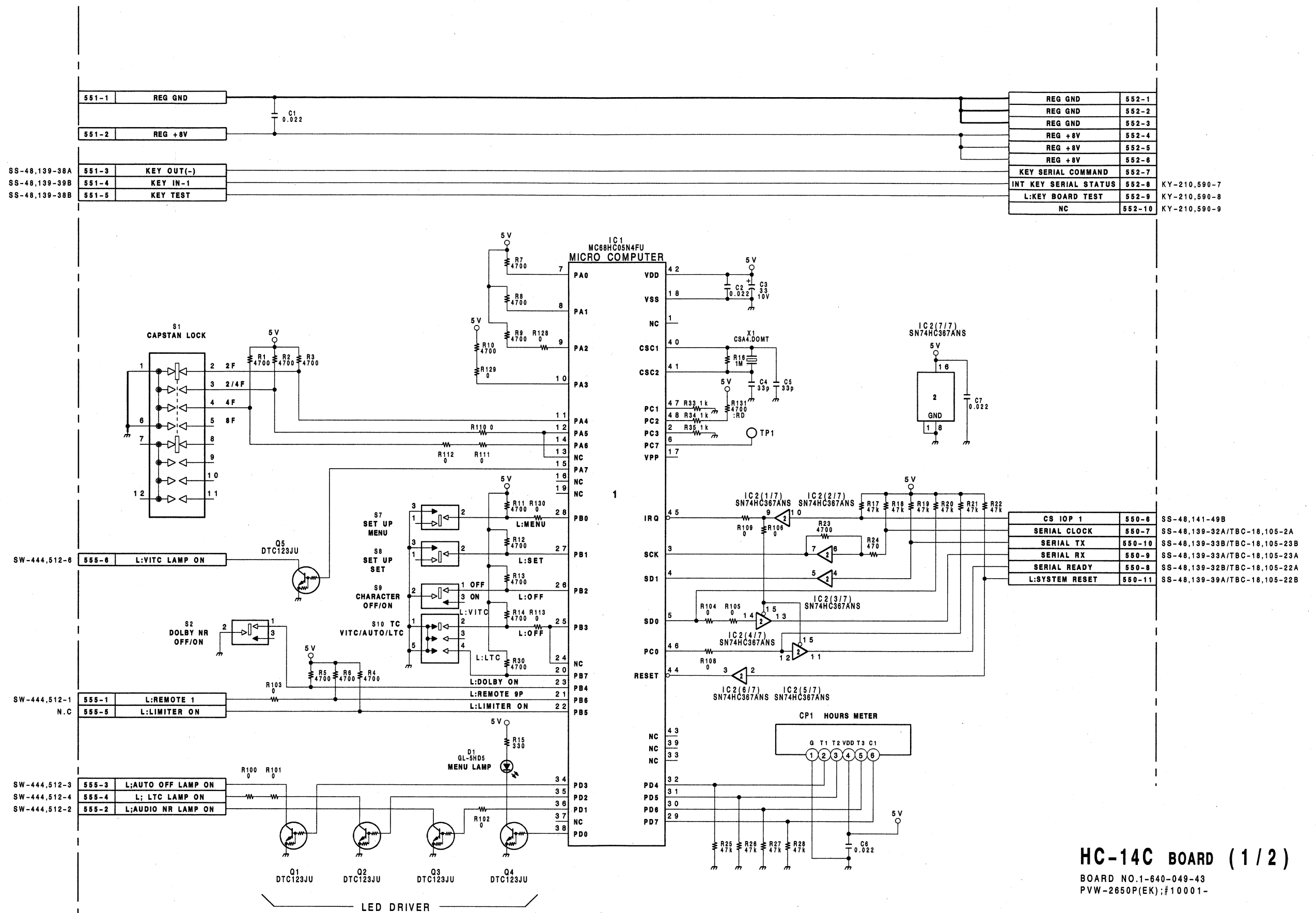
BOARD NO.1-640-030-24
PVW-2650P(EK);#10001-

HC-14C(1-640-049-43)

TP1 D-2

HC-14C(1/2);SUB-CONTROL PANEL(SWITCH)

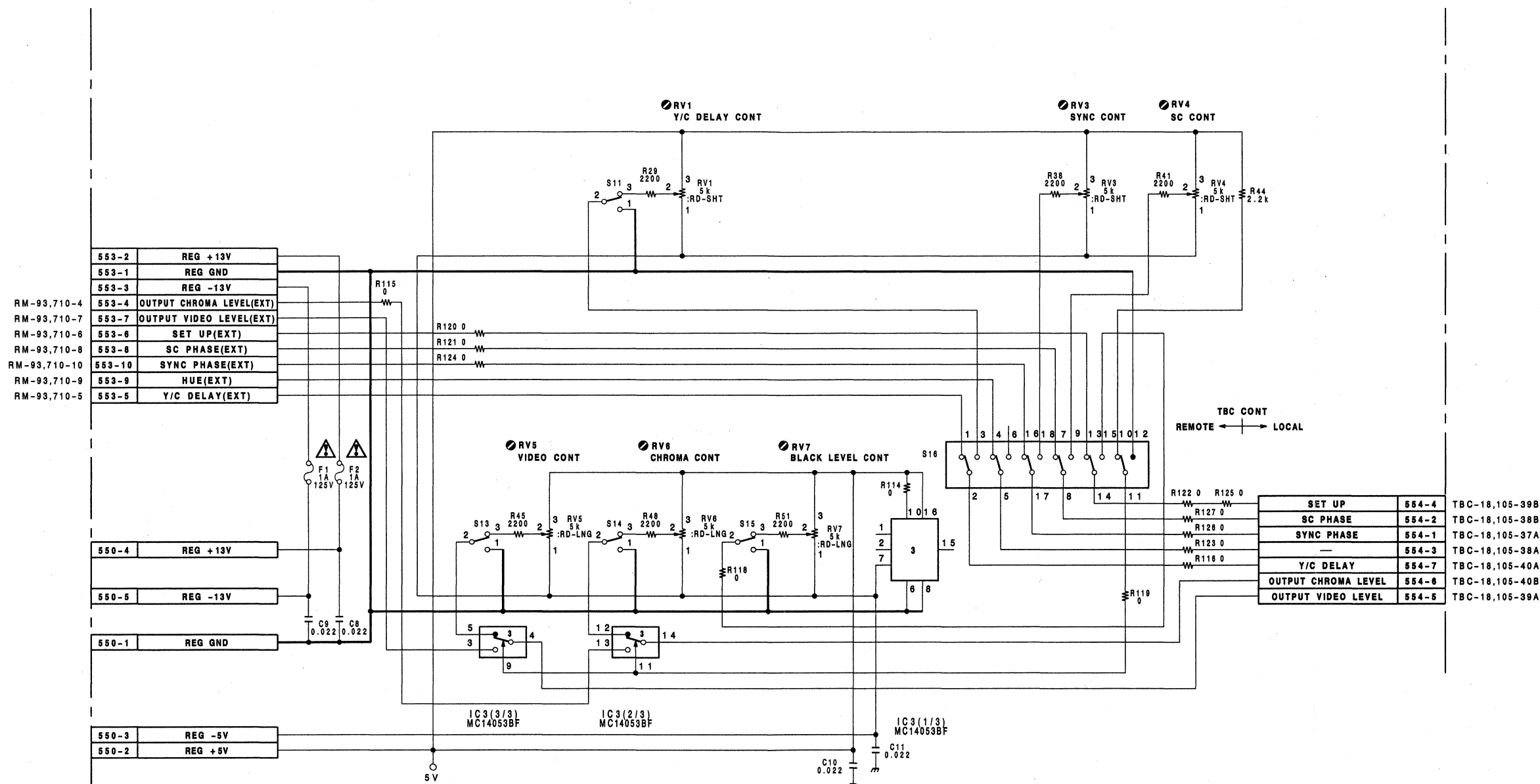
HC-



HC-14C BOARD (1/2)

BOARD NO.1-640-049-43
PVW-2650P(EK);#10001-

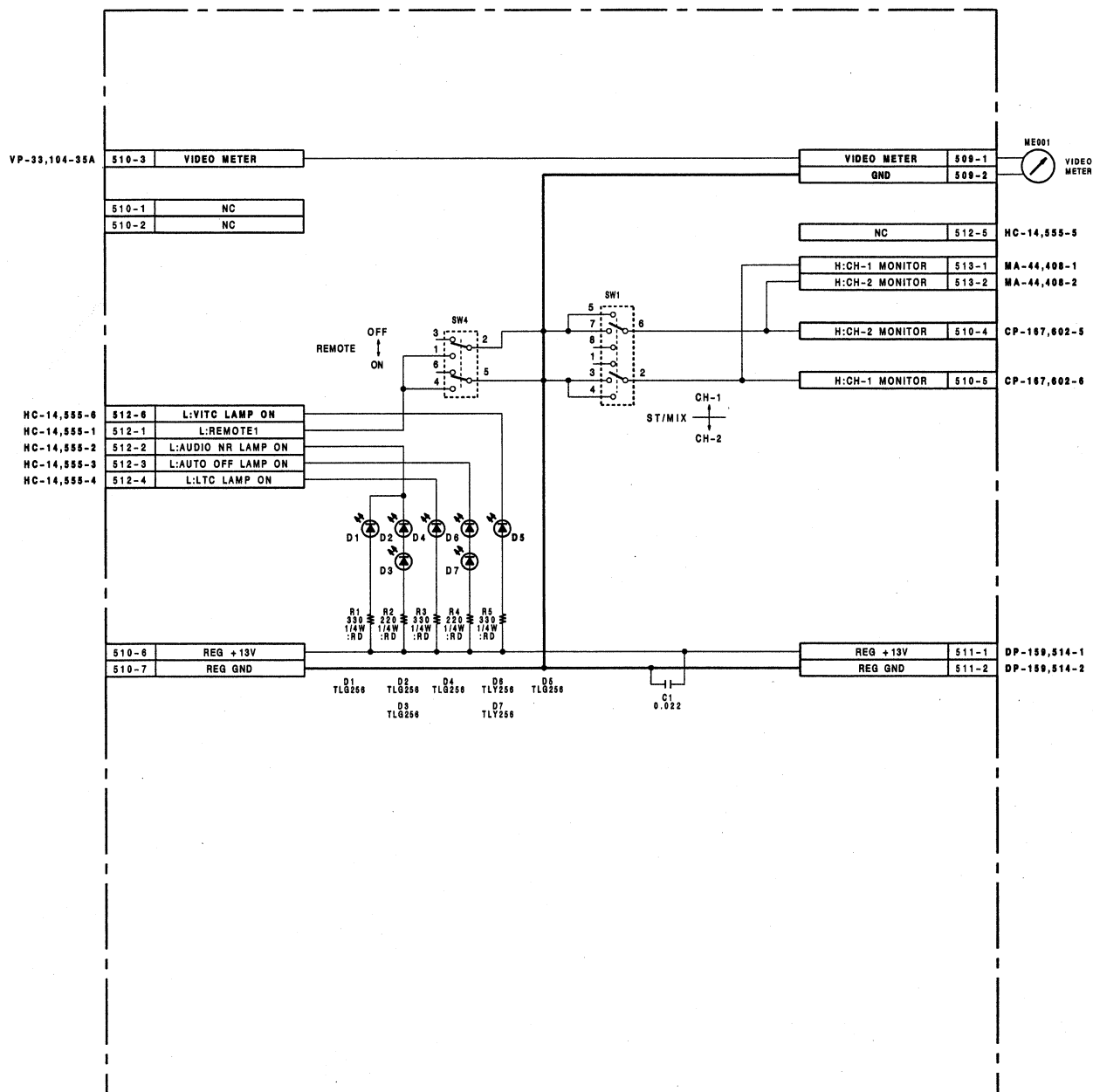
HC-14C(2/2);SUB-CONTROL PANEL(TBC CONTROL)



HC-14C BOARD (2/2)

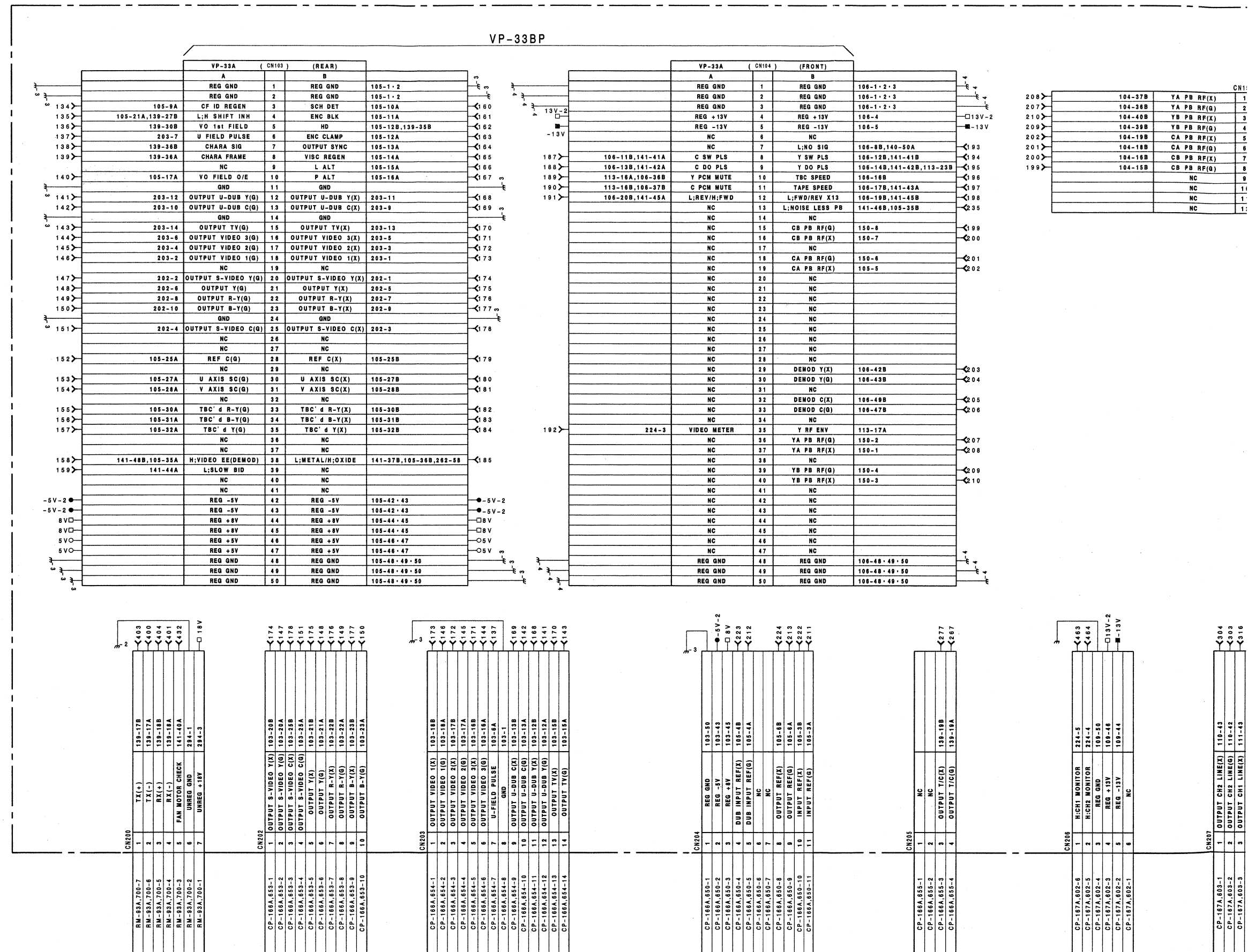
BOARD NO.1-640-049-43
PVW-2650P(EK);#10001-

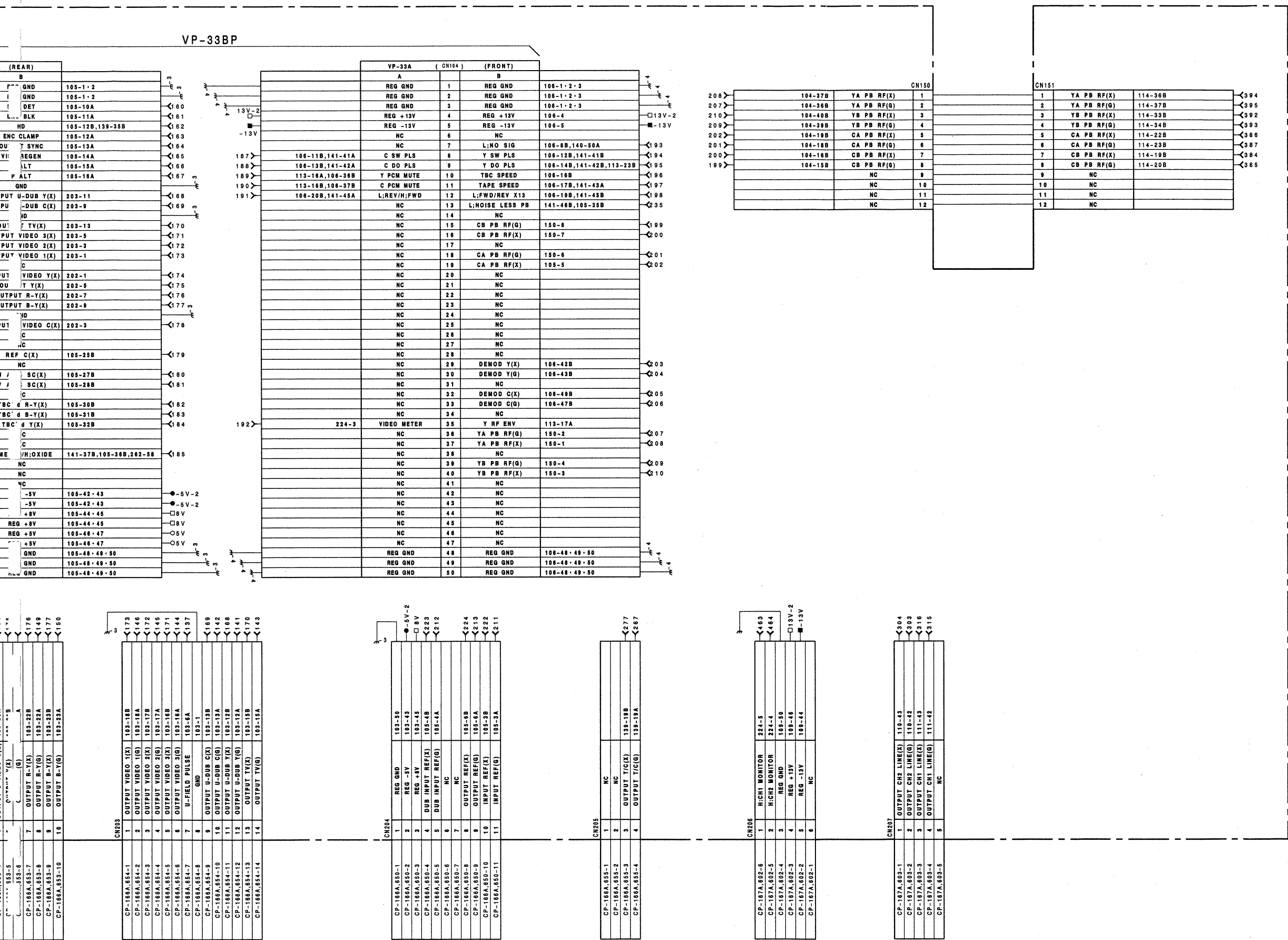
SW-444B;SELECT SWITCH,INDICATOR,RF/VIDEO LEVEL METER



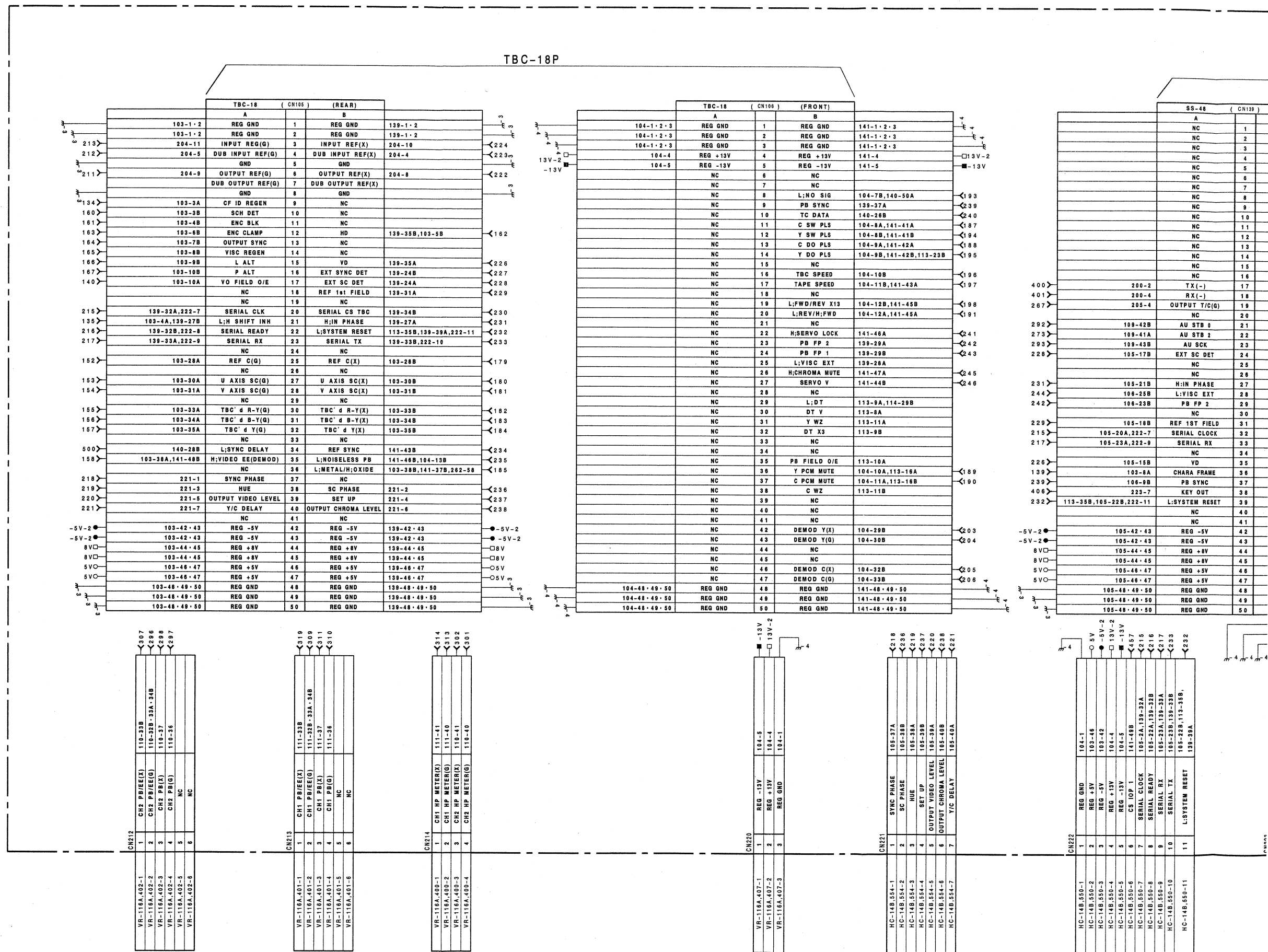
SW-444B BOARD

BOARD NO.1-640-043-31
PVW-2650P(EK);#10001-





MB-322B(2/5);MOTHER BOARD

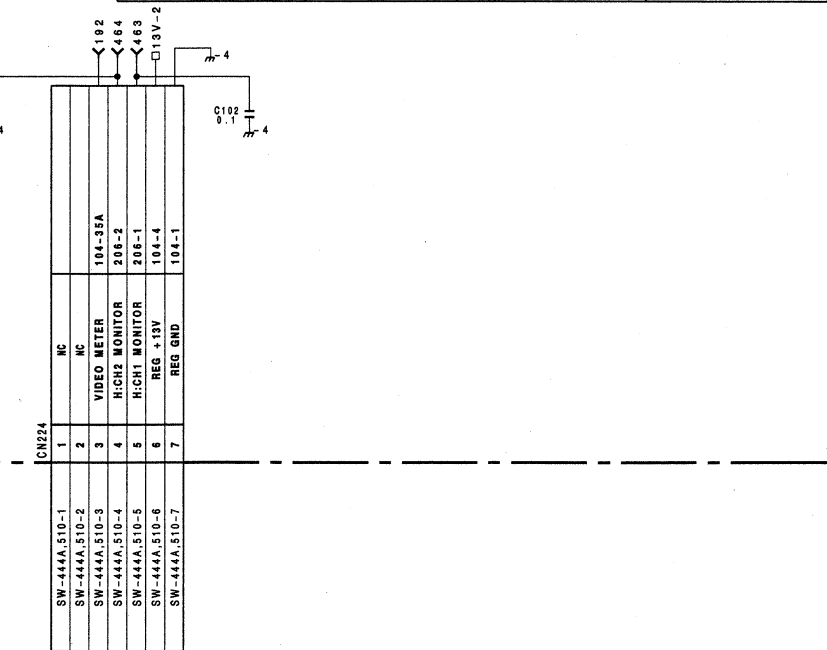
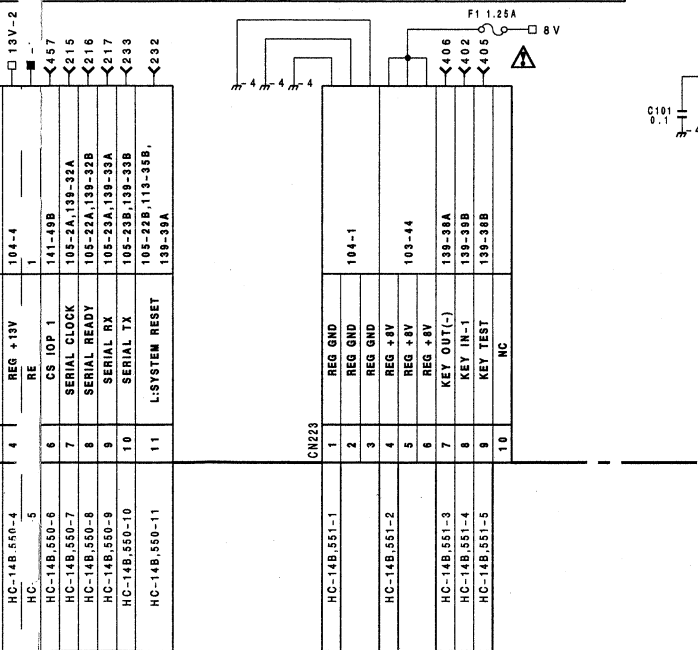


SS-48P

SS-48 (CN139) (REAR)			
A	B		
NC	1	NC	
NC	2	NC	
NC	3	NC	
NC	4	NC	
NC	5	NC	
NC	6	NC	
NC	7	NC	
NC	8	NC	
NC	9	NC	
NC	10	NC	
NC	11	NC	
NC	12	NC	
NC	13	NC	
NC	14	NC	
NC	15	NC	
NC	16	NC	
200-2	TX(-)	TX(+)	200-1
200-4	RX(-)	RX(+)	200-3
205-4	OUTPUT T/C(G)	OUTPUT T/C(X)	205-3
NC	20	PB LTC(G)	100-20A,100-20B
10-42B	AU STB 0	PB LTC(X)	100-20B
10-41A	AU STB 2	AU STB 1	105-41B
10-43B	AU SCK	AU S0	100-43A
105-17B	EXT SC DET	EXT SYNC DET	105-16B
NC	25	NC	
NC	26	NC	
10-21B	H:IN PHASE	L:H SHIFT INH	103-4A,105-21A
10-25B	L:VISC EXT	NC	
10-23B	PB FP 2	PB FP 1	100-24B
NC	30	VO 1ST FIELD	103-5A
105-18B	REF 1ST FIELD	NC	
105-20A,222-7	SERIAL CLOCK	SERIAL READY	105-22A,222-8
105-22-9	SERIAL RX	SERIAL TX	105-23B,222-10
NC	34	SERIAL CS TBC	105-20B
105-15B	VD	HD	103-5B,105-12B
103-8A	CHARA FRAME	CHARA SIG	103-7A
100-9B	PB SYNC	NC	
223-7	KEY OUT	KEY TEST	223-9
222-11	L:SYSTEM RESET	KEY IN 1	223-8
NC	40	NC	
NC	41	NC	
105-42-43	REG -5V	REG -5V	293-7
105-42-43	REG -5V	REG -5V	293-8
44-45	REG +8V	REG +8V	293-6
44-45	REG +8V	REG +8V	293-6
46-47	REG +5V	REG +5V	293-5
105-48-47	REG +5V	REG +5V	293-5
05-48-49-50	REG GND	REG GND	293-2-3-4
05-48-49-50	REG GND	REG GND	293-2-3-4
05-49-50	REG GND	REG GND	293-2-3-4

SS-48 (CN140) (CENTER)			
A	B		
NC	1	NC	
NC	2	NC	
NC	3	NC	
NC	4	NC	
NC	5	NC	
NC	6	NC	
NC	7	NC	
NC	8	NC	
NC	9	NC	
NC	10	NC	
NC	11	NC	
NC	12	NC	
NC	13	NC	
NC	14	NC	
NC	15	NC	
NC	16	NC	
NC	17	NC	
NC	18	NC	
NC	19	NC	
NC	20	NC	
NC	21	NC	
NC	22	NC	
NC	23	NC	
NC	24	NC	
NC	25	NC	
NC	26	TC DATA	100-10B
NC	27	NC	
NC	28	L:SYNC DELAY	105-34A
NC	29	NC	
NC	30	NC	
NC	31	NC	
NC	32	NC	
NC	33	NC	
NC	34	NC	
NC	35	NC	
NC	36	NC	
NC	37	NC	
NC	38	NC	
NC	39	NC	
NC	40	NC	
NC	41	NC	
NC	42	NC	
NC	43	NC	
NC	44	NC	
NC	45	NC	
NC	46	NC	
NC	47	NC	
NC	48	NC	
NC	49	NC	
104-7B,106-8B	L:NO SIG	50	NC

SS-48 (CN141) (FRONT)			
A	B		
100-1-2-3	REG GND	1	REG GND
100-1-2-3	REG GND	2	REG GND
100-1-2-3	REG GND	3	REG GND
100-4	REG +13V	4	REG +13V
100-5	REG -13V	5	REG -13V
NC	6	NC	
NC	7	NC	
100-40B	L:AU RESET	8	SV A3
113-24B,262-3	SV A1	9	SV A2
262-5	L:DR CS	10	SV A0
113-34B,262-7	L:SV WR	11	L:SV RD
113-30B,262-9	SV D0	12	L:I/O RESET
113-31B,262-11	SV D2	13	SV D1
113-32B,262-13	SV D4	14	SV D3
113-33B,262-15	SV D6	15	SV D5
262-17	EE PROM SCK	16	SV D7
262-19	EE PROM S1	17	EE PROM S0
262-21	L:EE PROM CS0	18	L:EE PROM BUSY
262-23	L:EE PROM CS2	19	L:EE PROM CS1
262-25	TAPE BEGIN	20	TAPE END
262-27	T-REEL CURRENT	21	S-REEL CURRENT
262-29	DRUM CURRENT	22	CAPSTAN CURRENT
262-31	CC UP/DOWN CURRENT	23	LOADING CURRENT
262-33	TENSION CURRENT	24	POSITION CURRENT
262-35	CAP FG A ANALOG	25	CTL SIG
262-37	S-TENSION	26	CAP FG B ANALOG
262-39	LOADING DRIVE	27	T-TENSION
262-41	T-REEL DRIVE	28	S-REEL DRIVE
262-43	DRUM DRIVE	29	CAPSTAN DRIVE
262-45	LOADING FG	30	TENSION SENSOR VCC
262-47	DRUM FG	31	DRUM FG
262-49	S-REEL FG 2	32	S-REEL FG 1
262-51	T-REEL FG 2	33	T-REEL FG 1
262-53	CAP FG B	34	CAP FG A
262-55	CAP FG B NORM	35	CAP FG A NORM
262-57	PWM FOR 12V	36	SWITCHED CTL
NC	37	L:METAL/H:OXIDE	103-30B,105-30B,262-58
262-61	DA LACH	38	1/2 VD FOR DR
NC	39	NC	
200-5	FAN MOTOR CHECK	40	L:REG TEMP
104-8A,106-11B	C SW PLS	41	Y SW PLS
104-9A,106-13B	C DO PLS	42	Y DO PLS
104-11B,106-17B	TAPE SPEED	43	REF SYNC
103-39A	L:SLOW BID	44	SERVO V
104-12A,106-20B	L:REV/H:FWD	45	L:FWD/REVX13(8)
106-22B	H:SERVO LOCK	46	L:NOISELESS PB
106-26B	H:CHROMA MUTE	47	NC
NC	48	H:VIDEO EE(DEMOD)	103-30A,105-35A
NC	49	CS TIOP 1	222-6
NC	50	NC	



MB-322B BOARD (2/5)

BOARD NO.1-640-038-31
PVW-2650P(EK);#10001-

		RP-57A (CN114)		(SW REG 測)			
		A		B			
3	113-1・2	REG GND	1	REG GND	113-3・4		⊖
3	113-1・2	REG GND	2	REG GND	113-3・4		⊖
5V-2	113-3	REG +5V	3	REG +5V	292-2		⊖ 5V-2
8V-2	113-4	REG +8V	4	REG +8V	292-1		⊖ 8V-2
-5V	113-5	REG -5V	5	REG -5V	292-5		⊖ 5V
		NC	6	NC			
3		GND(RE)	7	GND(RE)			⊖ 92
		NC	8	GND(RE)			⊖
3		GND(RE)	9	NC			
		NC	10	NC			
3		GND(RE)	11	NC			
3		GND(RE)	12	NC			
		NC	13	NC			
		NC	14	NC			
3		GND(RE)	15	GND(RE)			⊖
3		GND	16	NC			
3		GND	17	NC			
		NC	18	NC			
		NC	19	CB PB RF(X)	151-7		⊖ 84
3		GND	20	CB PB RF(G)	151-8		⊖ 85
		NC	21	GND			⊖
		NC	22	CA PB RF(X)	151-5		⊖ 86
		NC	23	CA PB RF(G)	151-6		⊖ 87
		NC	24	GND			⊖
		NC	25	NC			
		NC	26	NC			
		NC	27	GND			⊖
3		GND	28	NC			
		NC	29	L;DT	106-29B, 113-9A		⊖
	113-15A	YB SYNC REF(X)	30	NC			
	113-15B	YB SYNC REF(G)	31	GND			⊖
		NC	32	NC			
		NC	33	YB PB RF(X)	151-3		
		NC	34	YB PB RF(G)	151-4		⊖ 93
3		GND	35	GND			⊖
	113-14A	YA SYNC REF(X)	36	YA PB RF(X)	151-1		⊖ 94
	113-14B	YA SYNC REF(G)	37	YA PB RF(G)	151-2		⊖ 95
		NC	38	GND			⊖
		NC	39	NC			
		NC	40	NC			
		NC	41	NC			
		NC	42	NC			
		NC	43	NC			
-13V	211-10, 113-44・45	REG -13V	44	REG -13V	294-6, 211-10		⊖ -13V
-13V	211-10, 113-44・45	REG -13V	45	REG -13V	294-4, 211-10		⊖ -13V
13V-2	211-9, 113-46・47	REG +13V	46	REG +13V	294-5, 211-9		⊖ 13V-2
13V-2	211-9, 113-46・47	REG +13V	47	REG +13V	294-5, 211-9		⊖ 13V-2
3	113-48・49・50	REG GND	48	REG GND	294-6		⊖
3	113-48・49・50	REG GND	49	REG GND	294-6		⊖
3	113-48・49・50	REG GND	50	REG GND	294-6		⊖

		AU-150A	(CN109)	(SW REG 側)	
		A		B	
3		REG GND	1	REG GND	110-1・2
3		REG GND	2	REG GND	110-1・2
5V-2○		REG +5V	3	REG +5V	110-3
8V-2□		REG +8V	4	REG +8V	110-4
-5V●		REG -5V	5	REG -5V	110-5
		NC	6	NC	
		NC	7	NC	
		NC	8	NC	
		NC	9	NC	
		NC	10	NC	
3		GND	11	GND	
		NC	12	NC	
		NC	13	NC	
		NC	14	NC	
		NC	15	NC	
		NC	16	NC	
		NC	17	NC	
		NC	18	NC	
3		GND	19	GND	
		NC	20	NC	
3		GND	21	GND	
		NC	22	NC	
		NC	23	NC	
		NC	24	NC	
		NC	25	NC	
3		GND	26	GND	
		NC	27	NC	
		NC	28	PB LTC(X)	139-21B
268	109-29B,139-20B	PB LTC(Q)	29	PB LTC(Q)	109-29A,139-20B
		NC	30	NC	
		NC	31	NC	
		NC	32	NC	
269	110-28A,111-28A	L:NR ON	33	H:CH1 HEAD REC	111-29B
		NC	34	H:CH2 HEAD REC	110-29B
270	111-29A	H:CH1 PB MUTE	35	H:CH2 PB MUTE	110-29A
		NC	36	L:METAL/H:OXIDE(AU)	110-30B,111-30B
271	110-30A,111-30A	H:AUDIO ATT ON	37	H:SLOW EQ ON	110-31B,111-31B
		NC	38	L:CH1 PB	111-35B
272	110-35B	L:CH2 PB	39	NC	
		NC	40	L:AU RESET	141-8A
273	139-22A	AU STB 2	41	AU STB 1	139-22B
		NC	42	AU STB 0	139-21A
274	139-23B	AU SO	43	AU SCK	139-23A
-13V■		REG -13V	44	REG -13V	110-44・45
-13V■		REG -13V	45	REG -13V	110-44・45
13V-2□		REG +13V	46	REG +13V	110-46・47
13V-2□		REG +13V	47	REG +13V	110-46・47
3		REG GND	48	REG GND	110-48・49・50
3		REG GND	49	REG GND	110-48・49・50
3		REG GND	50	REG GND	110-48・49・50

		AU-149A (CN110)		(SW)
		A		
3	109-1-2	REG GND	1	RE
3	109-1-2	REG GND	2	RE
5V-2	109-3	REG +5V	3	RE
8V-2	109-4	REG +8V	4	RE
-5V	109-5	REG -5V	5	RE
		NC	6	
		NC	7	
		NC	8	
		NC	9	
		NC	10	
		NC	11	
		NC	12	
		NC	13	
3		GND	14	
3		GND	15	
		NC	16	
		NC	17	
		NC	18	
		NC	19	
		NC	20	
		NC	21	
		NC	22	
		NC	23	
3		GND	24	
3		GND	25	
3		GND	26	
3		GND	27	
269	109-33A,111-28A	H;NR ON	28	
286	109-35B	H;CH2 PB MUTE	29	H;CH2
271	109-37A,111-30A	H;AUDIO ATT ON	30	L;METAL/
		NC	31	H;SLO
		NC	32	CH2
296	212-2	CH2 PB/EE(G)	33	CH2
		NC	34	CH2
		NC	35	L;C
287	212-4	CH2 PB(G)	36	CH2
298	212-3	CH2 PB(X)	37	CH2
		NC	38	
		NC	39	
301	214-4	CH2 HP METER(G)	40	CH2 HP
302	214-3	CH2 HP METER(X)	41	CH2 HP
303	207-2	OUTPUT CH2 LINE(G)	42	OUTPUT
304	207-1	OUTPUT CH2 LINE(X)	43	OUTPUT
-13V	109-44-45	REG -13V	44	RE
-13V	109-44-45	REG -13V	45	RE
13V-2	109-46-47	REG +13V	46	RE
13V-2	109-46-47	REG +13V	47	RE
3	109-48-49-50	REG GND	48	RE
3	109-48-49-50	REG GND	49	RE
3	109-48-49-50	REG GND	50	RE

DR-18A,300-1	1	REG +5V	293-2
DR-18A,300-2	2	REG GND	293-1,5,6
DR-18A,300-3	3	REG GND	293-4,5,6
DR-18A,300-4	4	REG -5V	293-3
DR-18A,300-5	5	REG +5V	294-5
DR-18A,300-6	6	REG -13V	294-4
DR-18A,300-7	7	UNREG GND	294-1
DR-18A,300-8	8	UNREG GND	294-1
DR-18A,300-9	9	UNREG -16V	294-2
DR-18A,300-10	10	UNREG +18V	294-3

[illegible]

CN382		1	REG +3V	114-4	□ 3V-2
SW REG 2-1	2	REG +3V	114-3	○ 3V-2	
SW REG 2-2	3	REG GND	114-1-1		
SW REG 2-3	4	REG GND	114-1-2		
SW REG 2-4	5	REG -5V	114-2		● 5V
SW REG 2-5					

AU-149AP

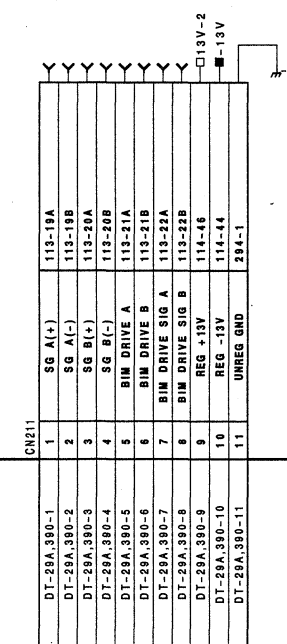
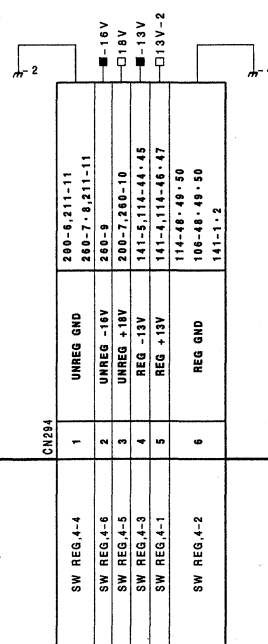
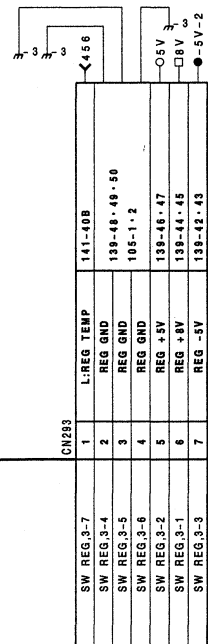
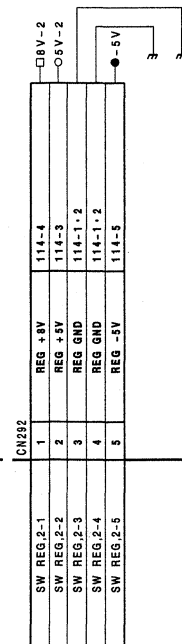
AU-149A (CN119)		(SW REG 脚)	
A	B		
REG GND	1	REG GND	111-1-2
REG GND	2	REG GND	111-1-2
REG +5V	3	REG +5V	111-3
REG +8V	4	REG +8V	111-4
REG -5V	5	REG -5V	111-5
NC	6	NC	
NC	7	NC	
NC	8	NC	
NC	9	NC	
NC	10	NC	
NC	11	NC	
NC	12	NC	
NC	13	NC	
GND	14	NC	
GND	15	GND	
NC	16	NC	
NC	17	NC	
NC	18	NC	
NC	19	NC	
NC	20	NC	
NC	21	NC	
NC	22	NC	
NC	23	NC	
GND	24	NC	
GND	25	GND	
GND	26	NC	
GND	27	GND	
H:NR ON	28	NC	
H:CH2 PB MUTE	29	H:CH2 HEAD REC	
H:AUDIO ATT ON	30	L:METAL/H:OXIDE(AU)	109-36B,111-30B
NC	31	H:LOW EQ ON	109-37B,111-31B
NC	32	CH2 PB/EE(Q)	212-2
CH2 PB/EE(Q)	33	CH2 PB/EE(X)	212-1
NC	34	CH2 PB/EE(Q)	212-2
NC	35	L:CH2 PB	109-39A
CH2 PB(Q)	36	CH2 PB(Q)	212-4
CH2 PB(X)	37	CH2 PB (X)	212-3
NC	38	NC	
NC	39	NC	
CH2 HP METER(Q)	40	CH2 HP METER(Q)	214-4
CH2 HP METER(X)	41	CH2 HP METER(X)	214-3
OUTPUT CH2 LINE(Q)	42	OUTPUT CH2 LINE(Q)	207-2
OUTPUT CH2 LINE(X)	43	OUTPUT CH2 LINE(X)	207-1
REG -13V	44	REG -13V	111-44-45
REG -13V	45	REG -13V	111-44-45
REG +13V	46	REG +13V	111-46-47
REG +13V	47	REG +13V	111-46-47
REG GND	48	REG GND	111-48-49-50
REG GND	49	REG GND	111-48-49-50
REG GND	50	REG GND	111-48-49-50

AU-148AP

AU-148A (CN111)		(SW REG 脚)	
A	B		
REG GND	1	REG GND	113-1-2
REG GND	2	REG GND	113-1-2
REG +5V	3	REG +5V	113-3
REG +8V	4	REG +8V	113-4
REG -5V	5	REG -5V	113-5
NC	6	NC	
NC	7	NC	
NC	8	NC	
NC	9	NC	
NC	10	NC	
NC	11	NC	
NC	12	NC	
NC	13	NC	
GND	14	NC	
GND	15	GND	
NC	16	NC	
NC	17	NC	
NC	18	NC	
NC	19	NC	
NC	20	NC	
NC	21	NC	
NC	22	NC	
NC	23	NC	
GND	24	NC	
GND	25	GND	
GND	26	NC	
GND	27	GND	
H:NR ON	28	NC	
H:CH1 PB MUTE	29	H:CH1 HEAD REC	
H:AUDIO ATT ON	30	L:METAL/H:OXIDE(AU)	109-36B,110-30B
NC	31	H:LOW EQ ON	109-37B,110-31B
NC	32	CH1 PB/EE(Q)	213-2
CH1 PB/EE(Q)	33	CH1 PB/EE(X)	213-1
NC	34	CH1 PB/EE(Q)	213-2
NC	35	L:CH1 PB	109-38B
CH1 PB(Q)	36	CH1 PB(Q)	213-4
CH1 PB(X)	37	CH1 PB (X)	213-3
NC	38	NC	
NC	39	NC	
CH1 HP METER(Q)	40	CH1 HP METER(Q)	214-2
CH1 HP METER(X)	41	CH1 HP METER(X)	214-1
OUTPUT CH1 LINE(Q)	42	OUTPUT CH1 LINE(Q)	207-4
OUTPUT CH1 LINE(X)	43	OUTPUT CH1 LINE(X)	207-3
REG -13V	44	REG -13V	114-44-45
REG -13V	45	REG -13V	114-44-45
REG +13V	46	REG +13V	114-46-47
REG +13V	47	REG +13V	114-46-47
REG GND	48	REG GND	114-48-49-50
REG GND	49	REG GND	114-48-49-50
REG GND	50	REG GND	114-48-49-50

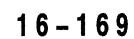
DT-30

DT-30 (CN113)		(SW REG 脚)	
A	B		
REG GND	1	REG GND	114-1-2
REG GND	2	REG GND	114-1-2
REG +5V	3	REG +5V	114-3
REG +8V	4	REG +8V	114-4
REG -5V	5	REG -5V	114-5
NC	6	NC	
NC	7	NC	
DT V	8	NC	
L:DT	9	DTX3	106-32B
PB FIELD O/E	10	NC	
Y WZ	11	C WZ	106-38B
NC	12	NC	
NC	13	NC	
YA SYNC REF(X)	14	YA SYNC REF(Q)	114-37A
YB SYNC REF(X)	15	YB SYNC REF(Q)	114-31A
Y PCM MUTE	16	C PCM MUTE	104-11A,106-37B
Y RF ENV	17	NC	
NC	18	NC	
SG A(+)	19	SG A(-)	211-2
SG B(+)	20	SG B(-)	211-4
BIM DRIVE A	21	BIM DRIVE B	211-6
BIM DRIVE SIG A	22	BIM DRIVE SIG B	211-8
NC	23	Y DO PLS	104-9B,106-14B,141-42B
SV A0	24	SV A1	141-9A,262-3
SV A2	25	SV A3	141-9B,262-1
SV A4	26	SV A5	140-8B
SV A6	27	SV A7	140-9B
SV A8	28	SV A9	140-10B
SV A10	29	NC	
NC	30	SV D0	141-12A,262-9
SV D1	31	SV D2	141-13A,262-11
SV D3	32	SV D4	141-14A,262-13
SV D5	33	SV D6	141-15A,262-15
SV D7	34	L:SV WR	141-11A,262-7
L:SV RD	35	L:SYSTEM RESET	105-22B,139-39A,222-11
NC	36	L:DT RAM WAIT	140-11B
L:DT RAM CS	37	CKR	140-12A
NC	38	NC	
CAPSTAN 2FG A	39	CAPSTAN 2FG B	140-15A
DT PG SW PLS	40	SWITCHED CTL	141-38B,262-50
DT Y SW PLS	41	DT C SW PLS	140-14A
VITC VD	42	DRUM FG	141-31B,262-46
NC	43	NC	
REG -13V	44	REG -13V	114-44-45
REG -13V	45	REG -13V	114-44-45
REG +13V	46	REG +13V	114-46-47
REG +13V	47	REG +13V	114-46-47
REG GND	48	REG GND	114-48-49-50
REG GND	49	REG GND	114-48-49-50
REG GND	50	REG GND	114-48-49-50



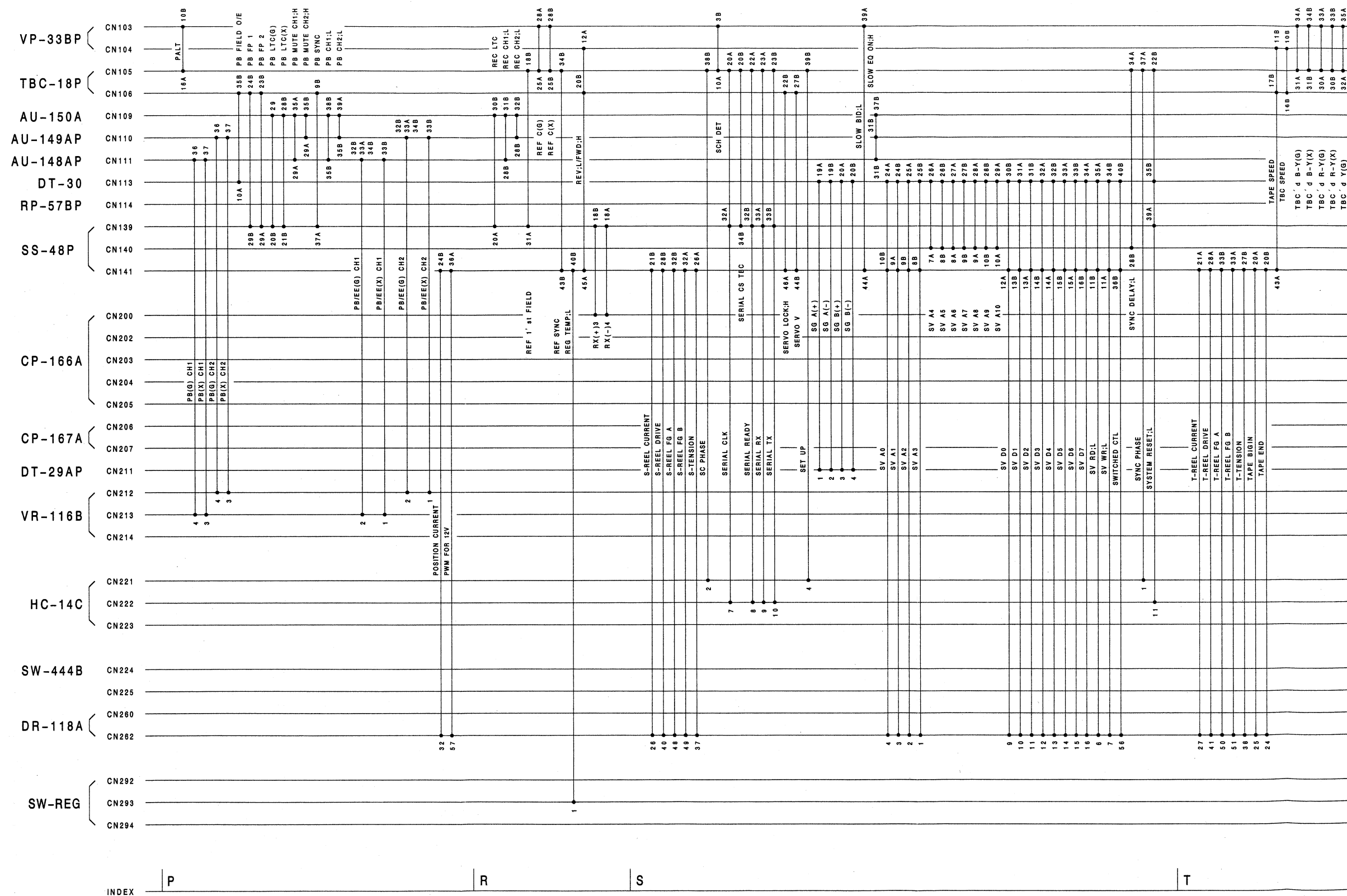
MB-322B BOARD (3/5)

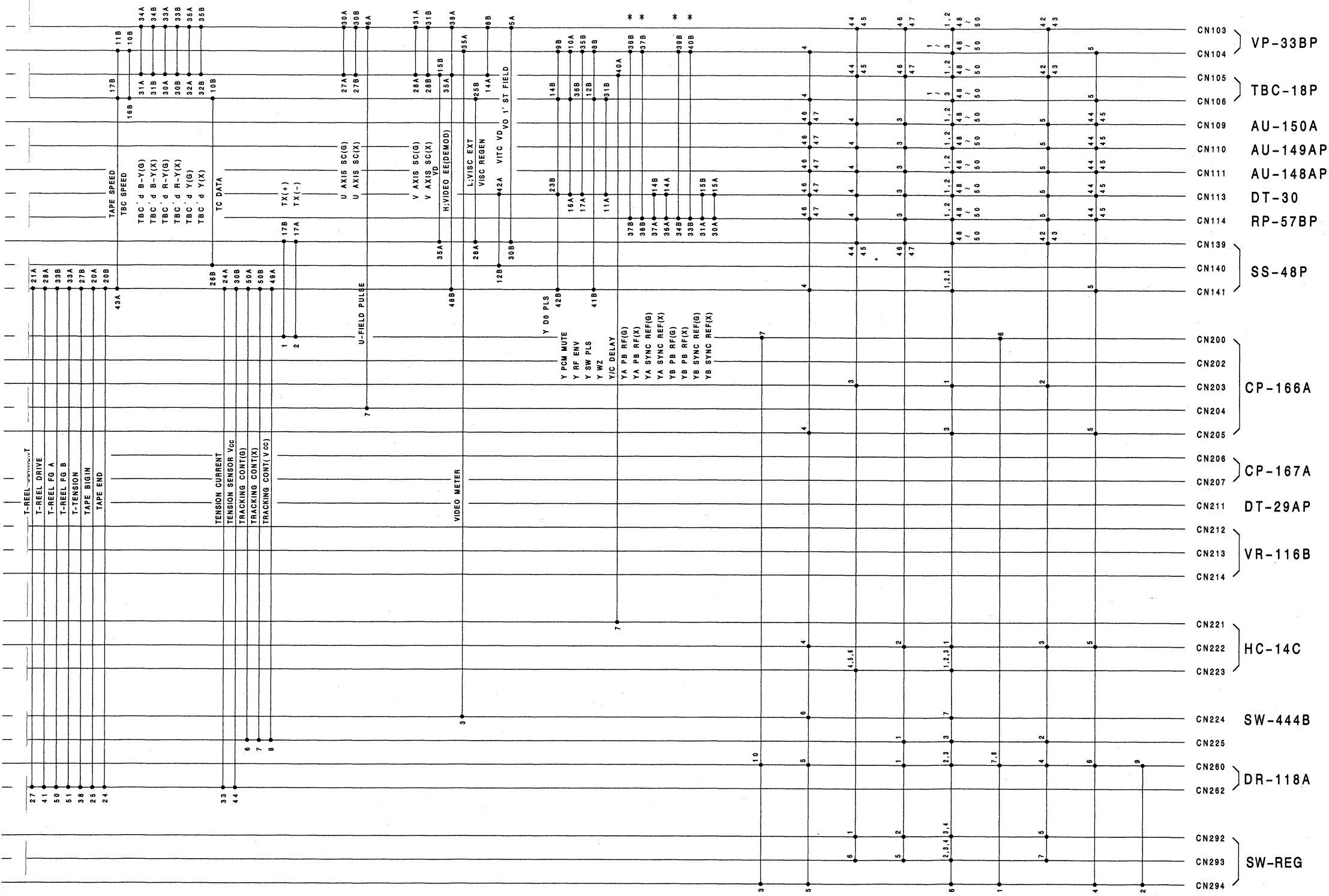
BOARD NO.1-640-038-31
PVW-2650P(EK);#10001-





BOARD NO.1-640-038-31
PVW-2650P(EK);#10001-



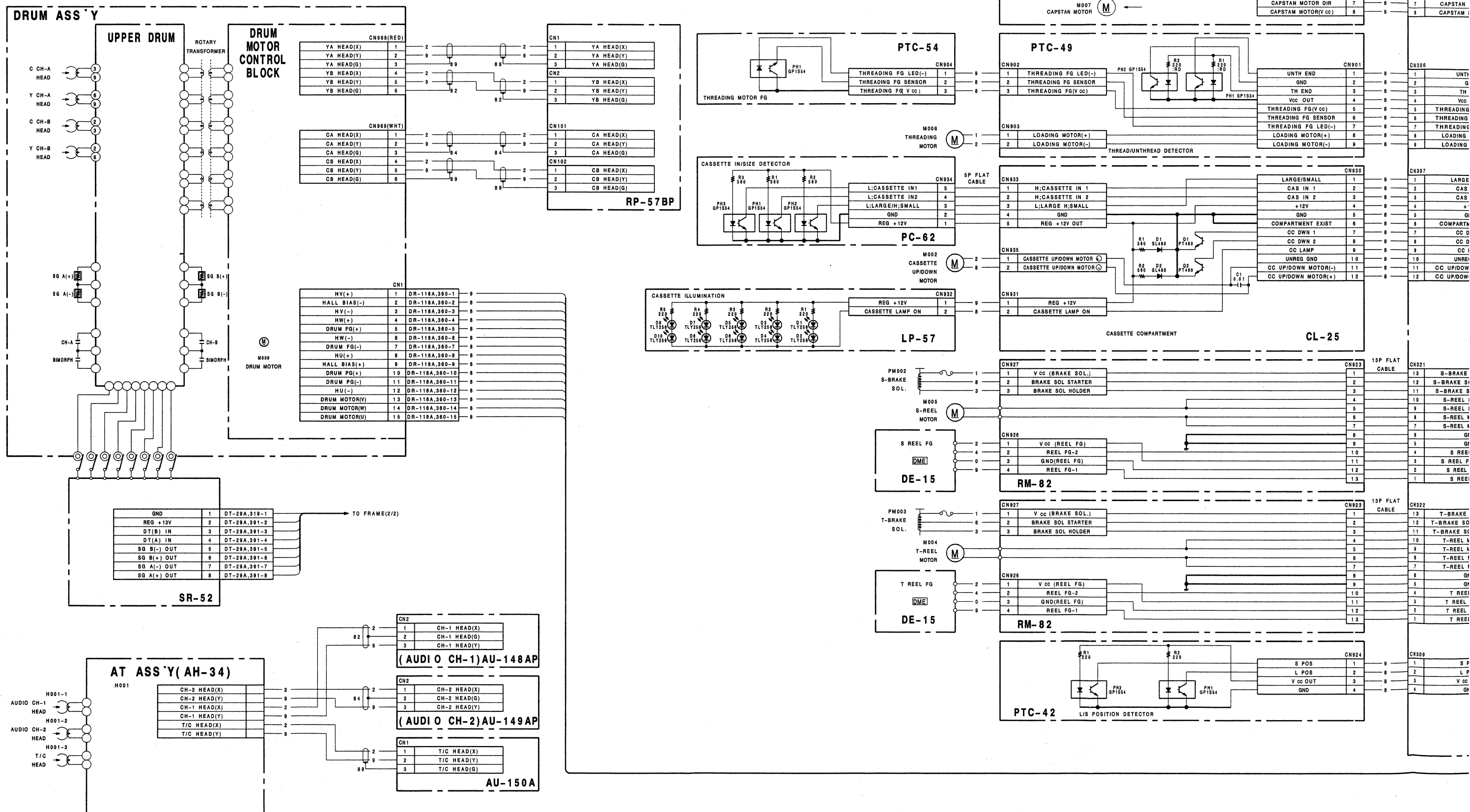


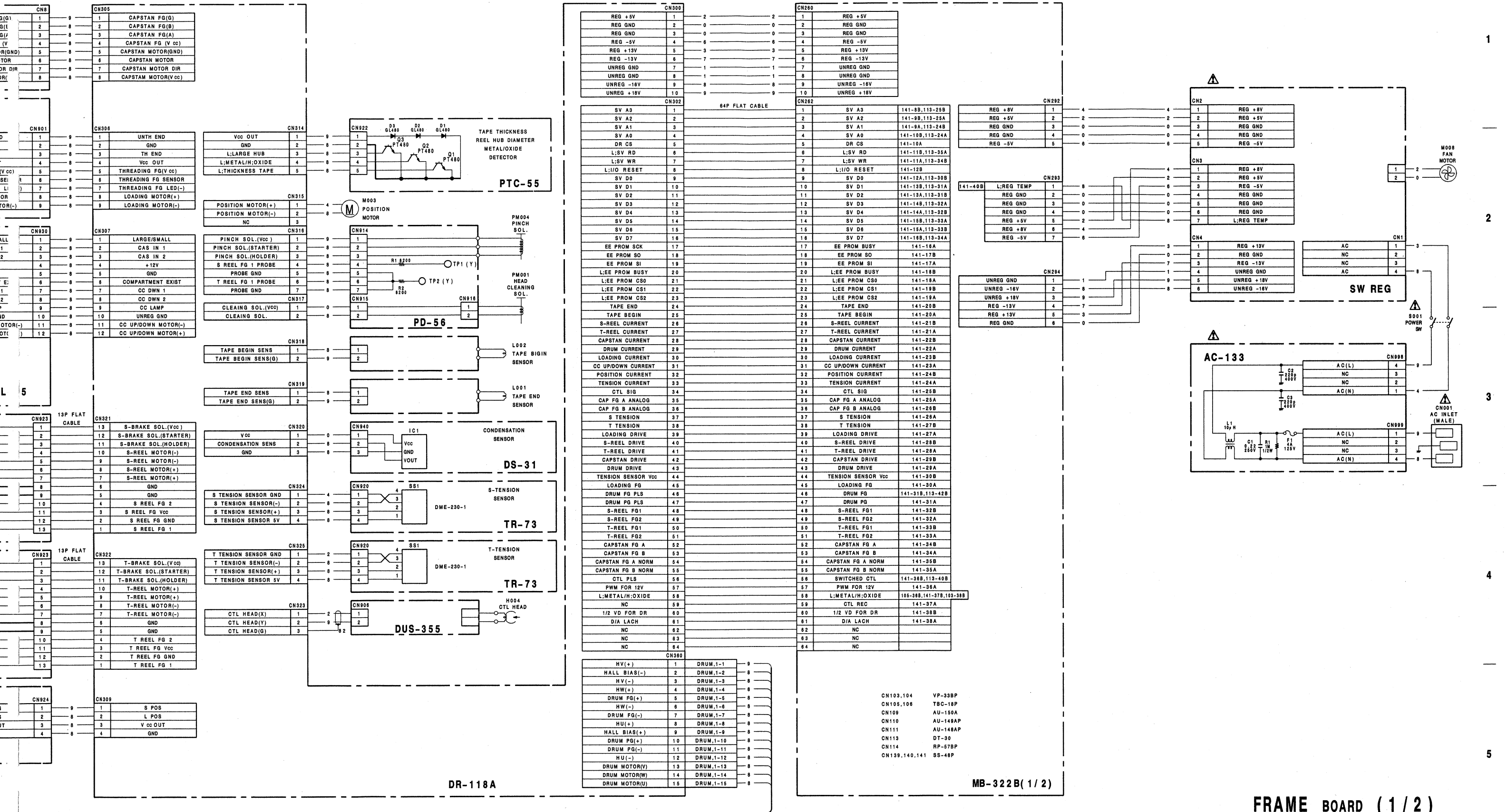
UNREG	REG	REG	REG	REG	UNREG	REG	REG	UNREG
+18V	+13V	+8V	+5V	GND	GND	-5V	-13V	-16V

* Via CN150,CN151 on the MB-322B Board.

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MB-322B BOARD (5/5)
BOARD NO.1-640-038-31
PVW-2650P(EK) ;#10001-

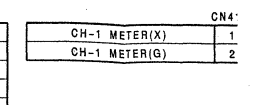
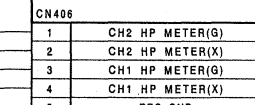
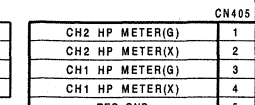
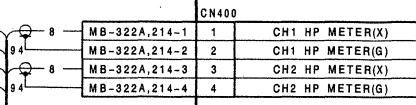
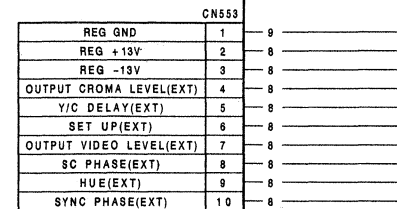
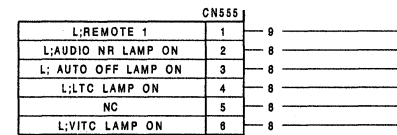
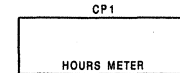
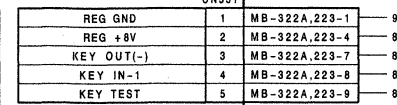
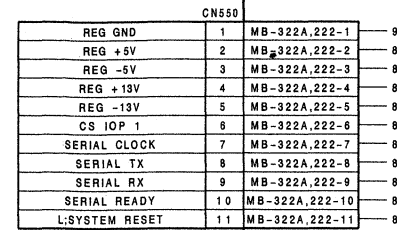
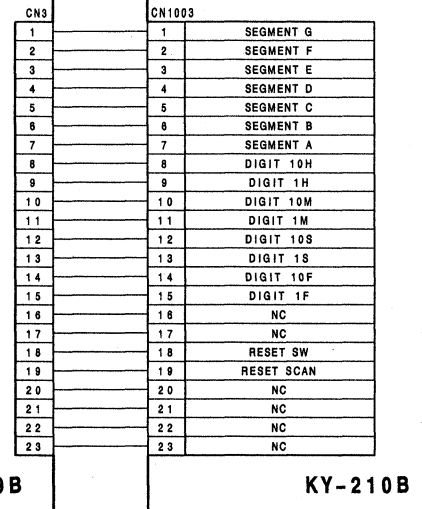
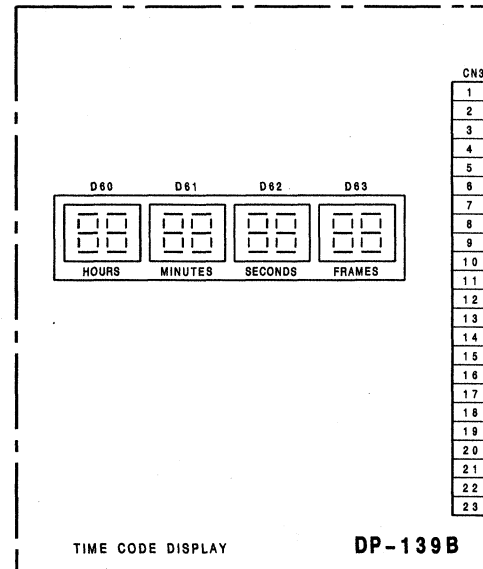
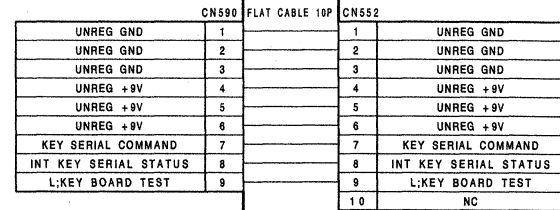
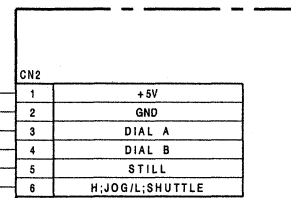
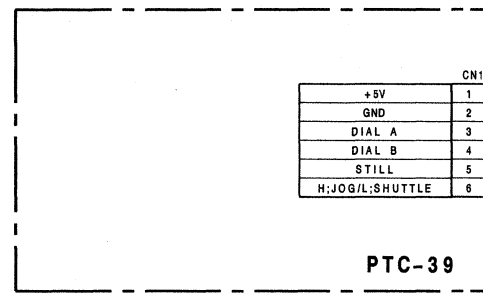




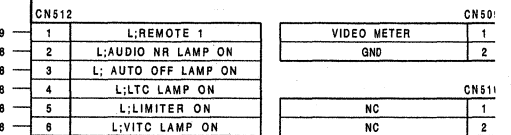
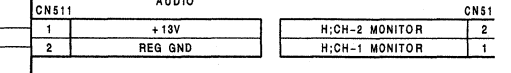
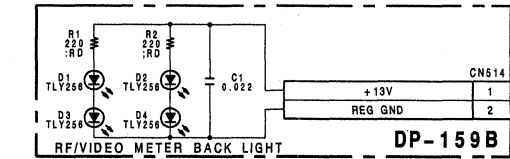
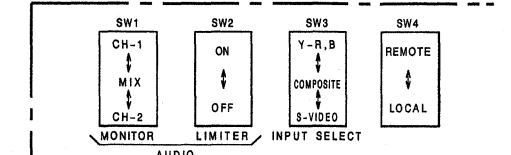
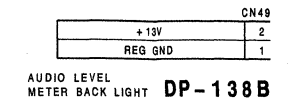
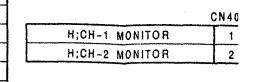
FRAME BOARD (1 / 2)

PVW-2650P(EK);#10001-

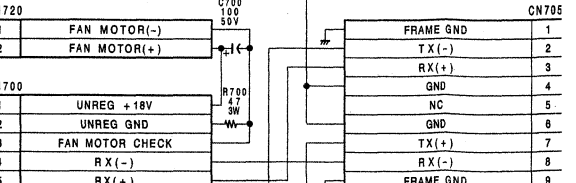
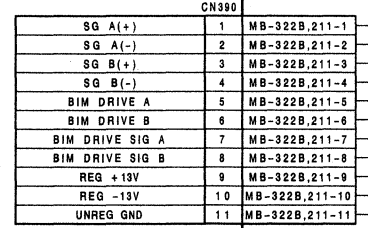
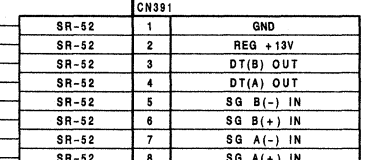
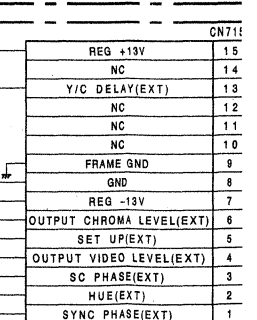
FRAME(2/2)

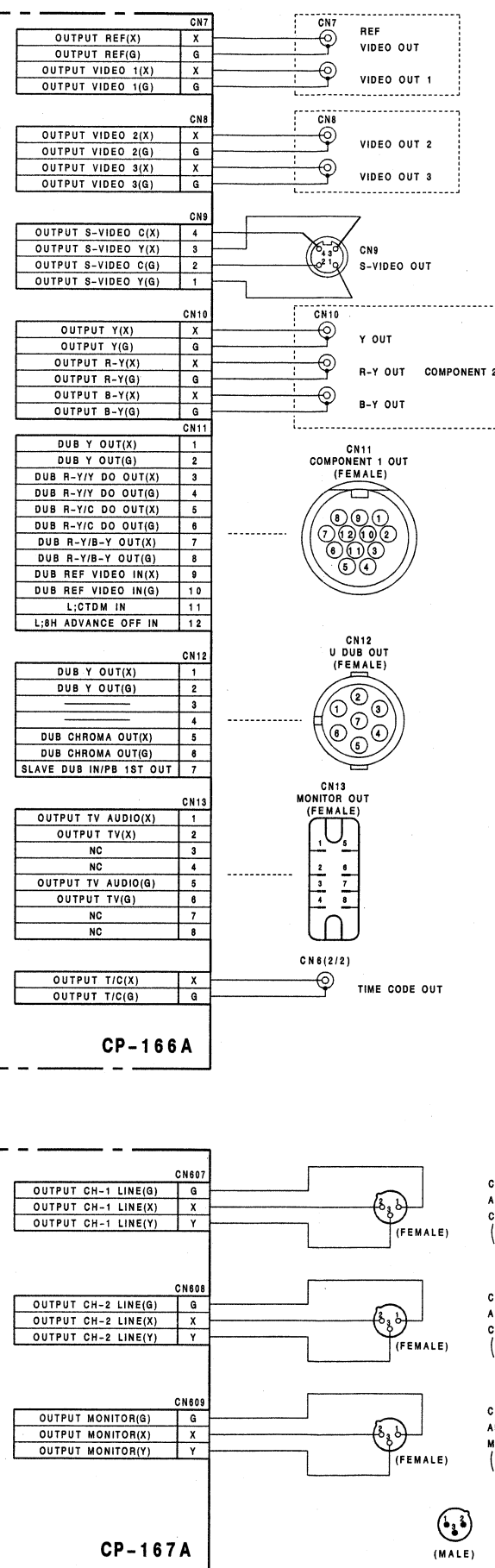
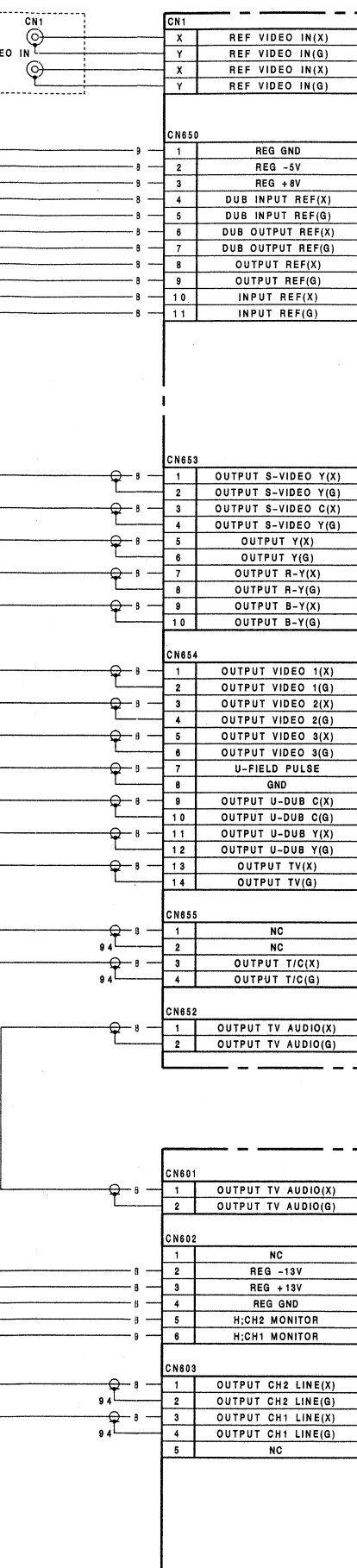
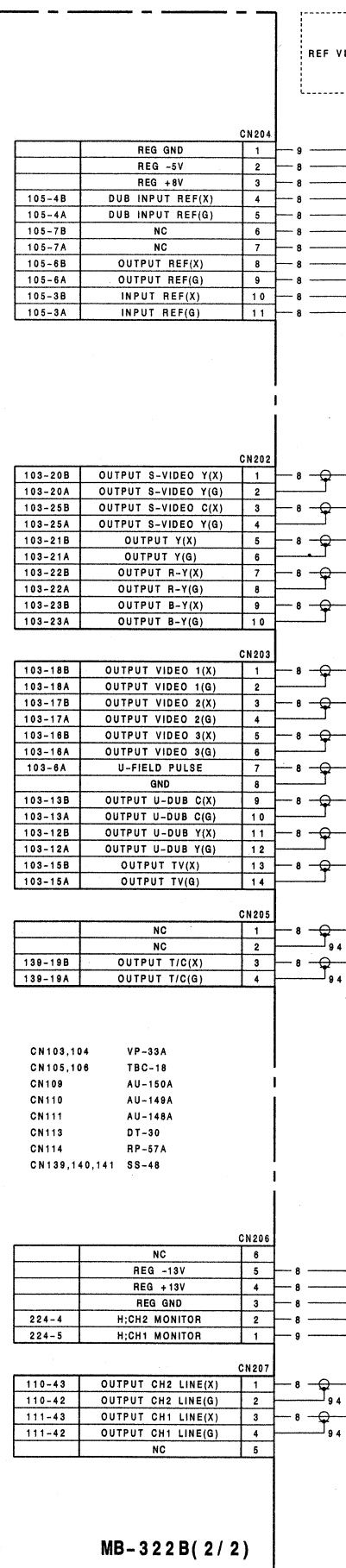
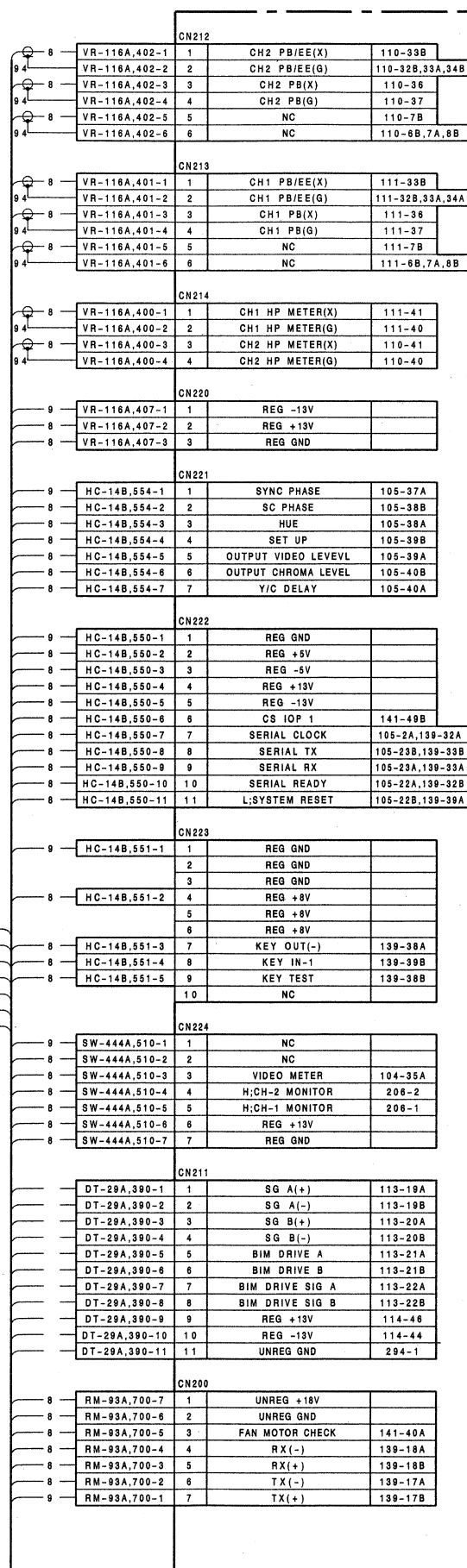
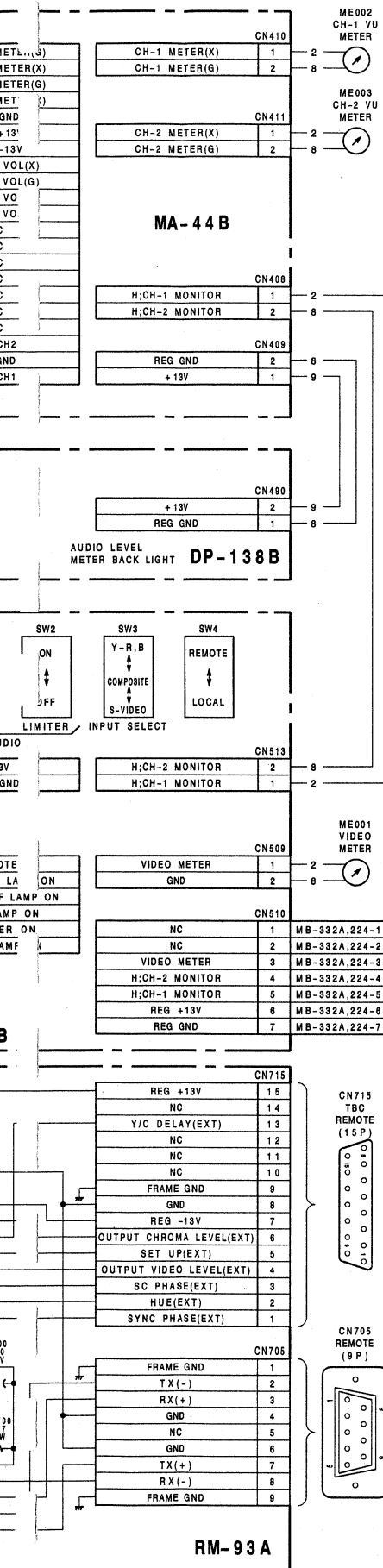


MA-44 B



SW-444B





SECTION 17

SEMICONDUCTOR PIN ASSIGNMENT

The chart in this section may sometimes show diodes, transistors, and ICs that are not interchangeable. When replacing a component, be sure to refer to the parts list. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

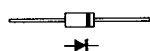
DIODE	PAGE	TRANSISTOR	PAGE	TRANSISTOR	PAGE
10 E-2	17-3	2 SA 1156	17-4	FMY 3	17-5
1 S 2836	17-3	2 SA 1413	17-4	IMX 1	17-5
1 SS 119	17-3	2 SA 1162	17-4		
1 S 1585	17-3	2 SA 1232	17-4	PT 480 F	17-5
1 SS 303	17-3	2 SA 1610	17-4		
1 SS 304	17-3	2 SA 1611	17-4		
		2 SA 768	17-4		
DA 204 U	17-3	2 SB 1094	17-4		
DM-211 A	17-3	2 SB 1115 A	17-4		
		2 SB 1121	17-4		
ERC 84-009	17-3	2 SB 624	17-4		
		2 SB 731	17-4		
FC 53 M	17-3	2 SB 798	17-4		
GL-5 HD 8	17-3	2 SC 1623	17-4		
GL 480	17-3	2 SC 2654	17-4		
		2 SC 2922	17-4		
LB-402 VK	17-3	2 SC 3012	17-4		
		2 SC 3632	17-4		
RD??ESB?	17-3	2 SC 3735	17-4		
RD??M	17-3	2 SC 4176	17-4		
		2 SC 4177	17-4		
SB 007-03 CP	17-3	2 SC 4178	17-4		
SB 01-05 CP	17-3	2 SC 4213 B	17-4		
TLG 256	17-3	2 SD 1615 A	17-4		
TLR 214	17-3	2 SD 1623	17-4		
TLUG 154	17-3	2 SD 596	17-4		
TLY 256	17-3	2 SD 809	17-4		
		2 SJ 106	17-4		
		2 SJ 132	17-4		
		2 SJ 143	17-5		
		2 SK 614	17-4		
		2 SK 852	17-4		
		2 SK 94	17-4		
		DTA 114 TK	17-5		
		DTA 123 JK	17-5		
		DTA 144 EU	17-5		
		DTC 123 JK	17-5		
		DTC 123 JU	17-5		
		DTC 144 EF	17-5		
		DTC 144 EK	17-5		
		DTC 144 EU	17-5		
		FMS 2	17-5		
		FMW 2	17-5		
		FMW 7	17-5		
		FMW 8	17-5		

EMICONDUCTOR INDEX

IC	PAGE
74 F 00 SJ	17-6
AM 26 LS 30 PC	17-6
AM 26 LS 32 PC	17-6
AM 27 C 010-150 DC	17-6
BX-3914	17-6
CX 20060	17-6
CX 20188	17-7
CX 22017	17-7
CX 23065 A	17-7
CX 7991	17-8
CXA 1370 Q	17-8
CXA 1450 M	17-9
CXA 1451 M	17-9
CXD 1095 Q	17-10
CXD 1132 Q	17-11
CXD 1171 M	17-12
CXD 1175 AM	17-12
CXD 1216 M	17-12
CXD 2202 Q	17-13
CXD 8117 P	17-14
CXD 8152 Q	17-14
CXD 8160 Q	17-16
CXD 8176 Q	17-16
CXD 8177 Q	17-16
CXD 8310 M	17-17
CXD 8311 Q	17-17
CXK 1013 P	17-17
CXK 1203 Q	17-17
CXK 1206 AM	17-18
CXK 58257 AM-10 L	17-18
HA 12411	17-19
HD 14053 BFP	17-19
HD 6475328 CP 10	17-20
LA 7205	17-21
LM 2903 DQ	17-21
LM 2903 M	17-21
LM 2903 P	17-21
LM 2903 PS	17-21
LM 311 PS	17-21
M 50747 H-XXXSP	17-21
M 51957 BL	17-22
M 51958 BL	17-22
M 54516 P	17-22
M 54523 P	17-22
M 54532 P	17-22
MB 4002 PF	17-22
MB 88341 PFV	17-23
MB 90061-111	17-23
MC 14046 BF	17-23
MC 14051 BF	17-23
MC 14066 BF	17-24
MC 14069 UBF	17-24

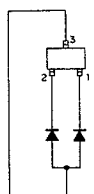
IC	PAGE
MC 14538 BF	17-24
MC 68 HC 05 N 4	17-24
NJM 2068 SD	17-25
NJM 360 M	17-25
NJM 4565 M-A	17-25
NJU 8001 M	17-25
RC 4556 MA	17-25
RC 4558 DD	17-25
RC 4558 M	17-25
RC 4560 D	17-25
RC 4560 M	17-25
RC 5532 DD	17-25
RC 7805 FA	17-25
RC 7809 FA	17-25
RC 7812 FA	17-26
RC 78 L 05 A	17-26
RC 78 L 09 A	17-26
RC 7905 FA	17-26
RC 7909 FA	17-26
RC 79 L 05 A	17-26
SC 14 S 66 F	17-26
SN 74 HC 00 ANS	17-26
SN 74 HC 02 ANS	17-26
SN 74 HC 04 ANS	17-26
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SN 74 HC 14 ANS	17-27
SN 74 HC 153 ANS	17-27
SN 74 HC 157 ANS	17-27
SN 74 HC 164 ANS	17-28
SN 74 HC 191 NS	17-28
SN 74 HC 245 ANS	17-28
SN 74 HC 27 ANS	17-28
SN 74 HC 32 ANS	17-28
SN 74 HC 367 ANS	17-29
SN 74 HC 541 ANS	17-29
SN 74 HC 74 ANS	17-29
SN 74 HCU 04 ANS	17-26
SN 74 LS 06 NS	17-29
SN 74 LS 157 NS	17-29
SN 74 LS 221 NS	17-29
TA 7267 P	17-30
TA 7357 AP	17-30
TA 8424 F	17-30
TC 4069 UBP	17-24
TC 5081 AP	17-31
TC 74 HC 123 F	17-31
TC 74 HC 86 AF	17-31
TC 7 S 04 F	17-26
TC 7 S 32 F	17-31
TL 082 CPS	17-31
TL 084 CNS	17-31
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TL 431 CPS	17-32
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UPC 324 G 2	17-33
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UPC 393 G 2	17-21
UPC 4557 C	17-33
UPC 4558 C	17-25
UPC 4570 G 2	17-33
UPC 4572 C	17-33
UPC 4574 G 2	17-33
UPD 4053 BC	17-19
UPD 70320 L-8	17-34
UPD 7201 AC	17-35



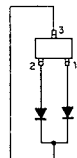
10E-2
1S1585
1SS119

TOP VIEW

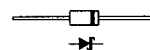


1S2836
1SS303

TOP VIEW

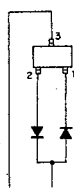


1SS304



ERC84-009

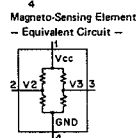
TOP VIEW



DA204U



DM211A



FC53M

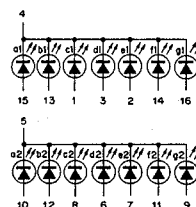
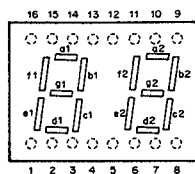


GL-5HD8 ; RED

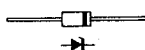


GL480 ; INFRARED

DUAL 7-SEGMENT LED
— TOP VIEW —



LB402VK (ROHM)



RD ? ? ESB ?

TOP VIEW



RD ? ? M

TOP VIEW



SB007-03CP



SB01-05CP



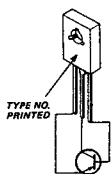
TLG256 ; GREEN
TLY256 ; YELLOW



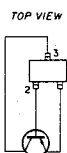
TLUG154 ; GREEN



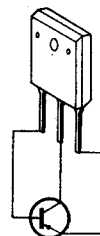
TLR214 ; RED



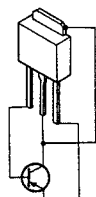
2SA1156
2SB731



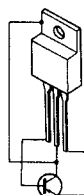
2SA1162
2SA1610
2SA1611
2SB624



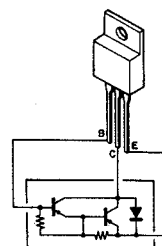
2SA1232



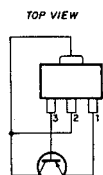
2SA1413



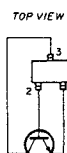
2SA768



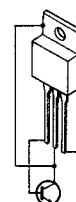
2SB1094



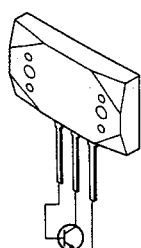
2SB1115A
2SB1121
2SB798



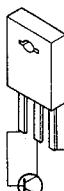
2SC1623
2SC3735
2SC4176
2SC4177
2SC4178
2SC4213B
2SD596



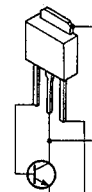
2SC2654



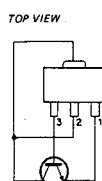
2SC2922



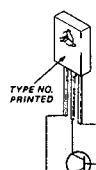
2SC3012



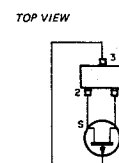
2SC3632



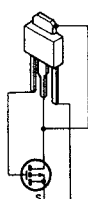
2SD1615A
2SD1623



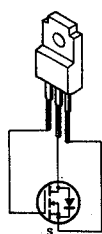
2SD809



2SJ106



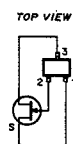
2SJ132



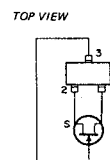
2SJ143



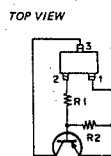
2SK614



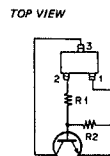
2SK852



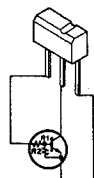
2SK94



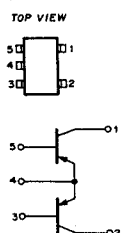
DTA114TK ($R1 = 10K$, $R2 = \infty$)
DTA123JK ($R1 = 2.2K$, $R2 = 47K$)
DTA144EU ($R1 = 47K$, $R2 = 47K$)



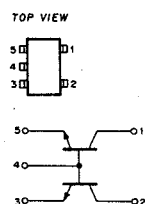
DTC123JK ($R1 = 2.2K$, $R2 = 47K$)
DTC123JU ($R1 = 2.2K$, $R2 = 47K$)
DTC144EK ($R1 = 47K$, $R2 = 47K$)
DTC144EU ($R1 = 47K$, $R2 = 47K$)



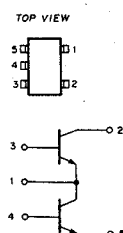
DTC144EF ($R1 = 47K$, $R2 = 47K$)



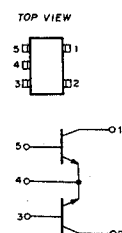
FMS2



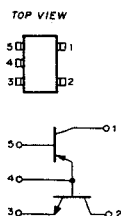
FMW2



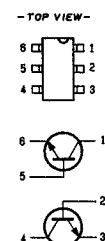
FMW7



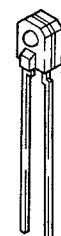
FMW8



FMY3

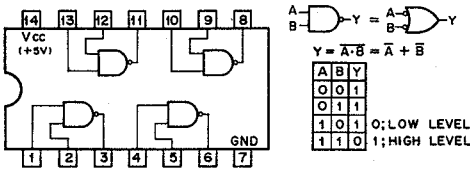


IMX1

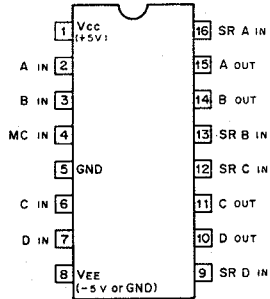


PT480F

74F00SJ (NS) FLAT PACKAGE
TTL 2-INPUT POSITIVE-NAND GATE
- TOP VIEW -

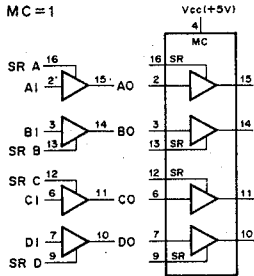


AM26LS30PC (ADVANCED MICRO DEVICES)
LINE DRIVER
- TOP VIEW -



MC : MODE CONTROL
SR : SLEW RATE CONTROL

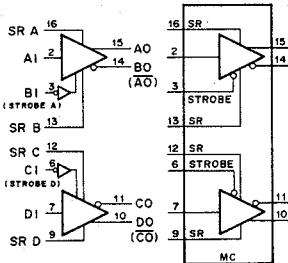
MC=1



MC	A TO D	A TO D
1	0	0
1	1	1

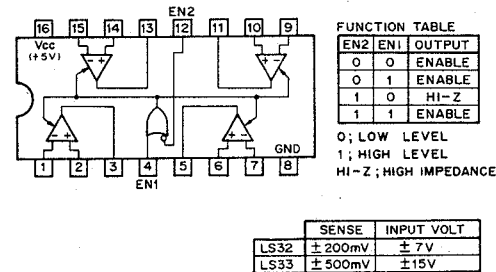
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

MC=0

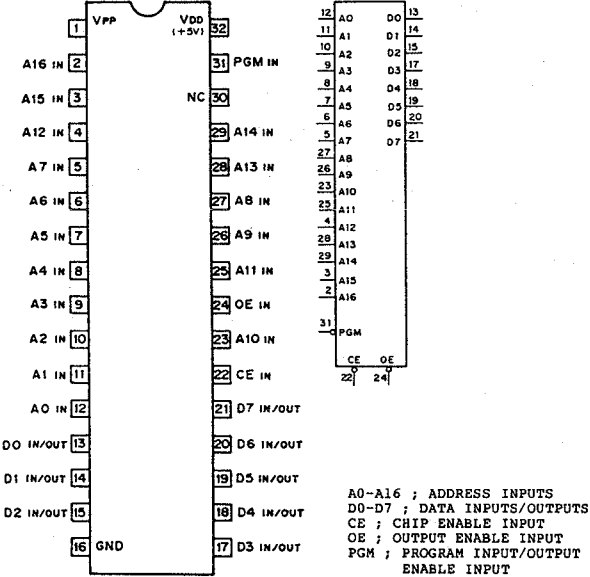


MC	STROBE A	STROBE B	STROBE C	STROBE D	A & B	A & B & C
0	0	0	0	0	1	1
0	0	1	1	1	0	0
0	1	X	X	X	HI-Z	HI-Z

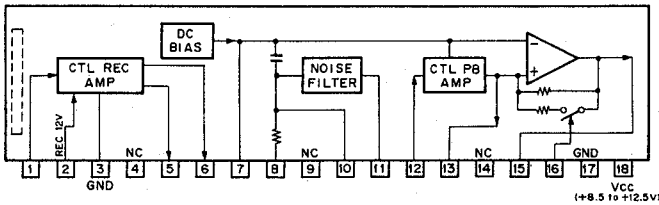
AM26LS32PC (ADVANCED MICRO DEVICES)
HIGH SPEED DIFFERENTIAL LINE RECEIVER
- TOP VIEW -



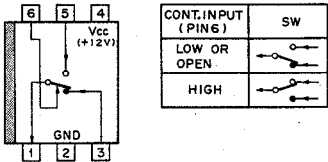
AM27C010-150DC (AMD)
C-MOS 1M (131072x8)-BIT EPROM
- TOP VIEW -



BX3914 (SONY)
CTL REC/PB AMPLIFIER
- PRINTED SIDE -

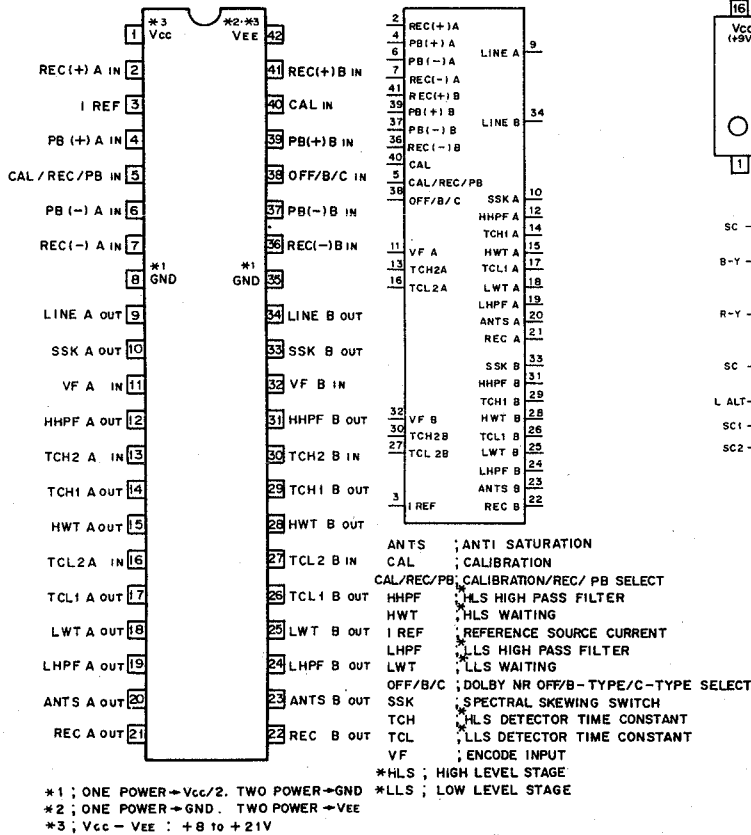


CX20060 (SONY)
ANALOG SWITCH
- TOP VIEW -



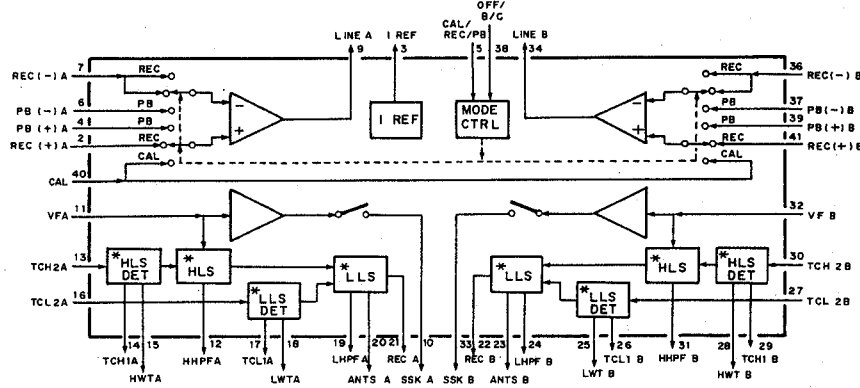
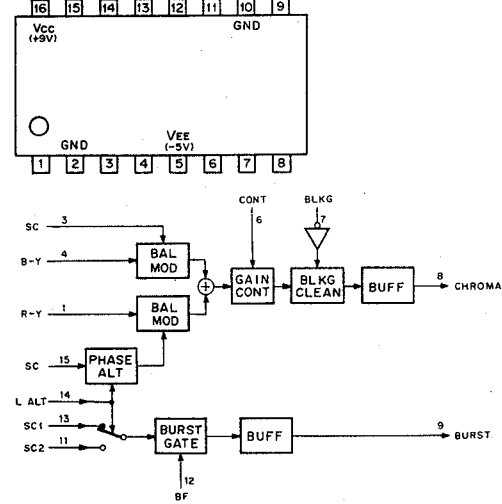
CX20188 (SONY)

DOLBY B TYPE AND C TYPE, NOISE REDUCTION SYSTEM
- TOP VIEW -



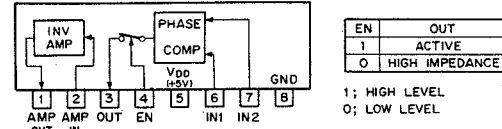
CX22017 (SONY)

VIDEO SIGNAL PROCESSOR
- TOP VIEW -

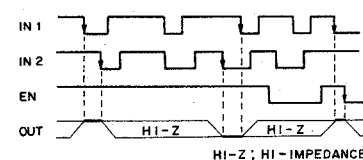


CX23065A (SONY)

N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER
- PRINTED SIDE VIEW -

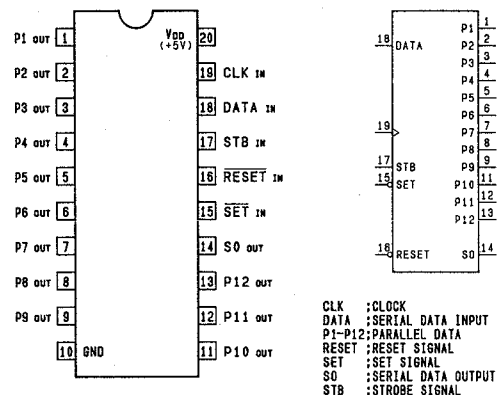


TIMING CHART



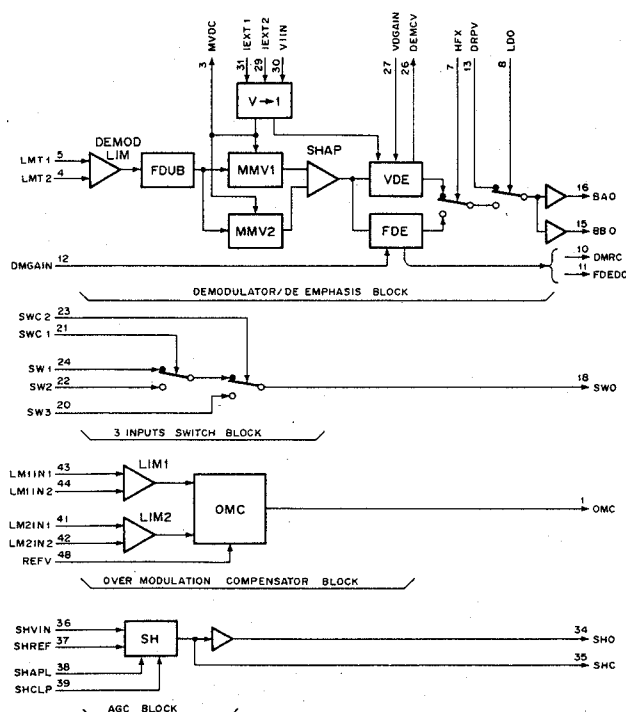
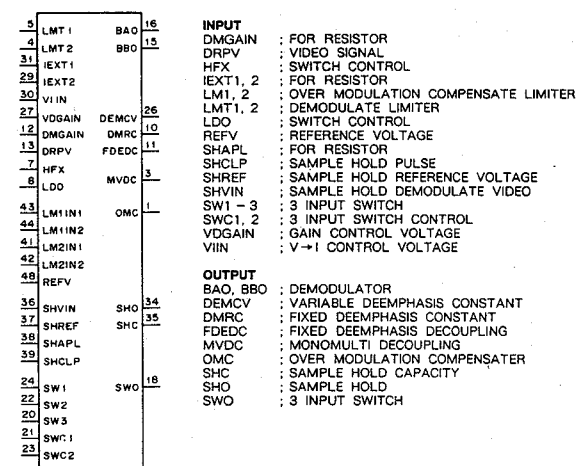
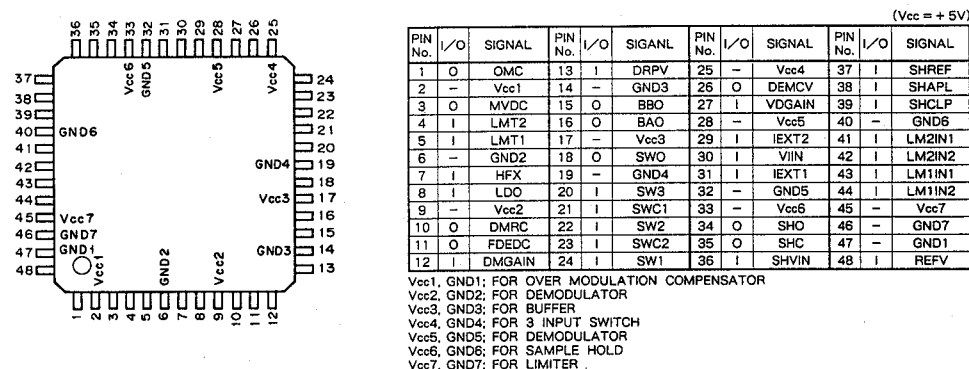
CX7991 (SONY)

C-MOS 12-BIT SERIAL TO PARALLEL CONVERTER - TOP VIEW -



CXA1370Q (SONY)

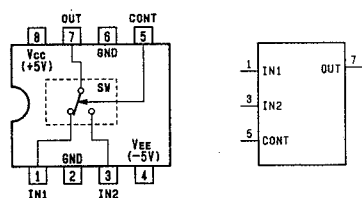
DEMODULATOR/OVER MODULATION COMPENSATOR - TOP VIEW -



CXA1450M (SONY) FLAT PACKAGE

VIDEO SIGNAL SWITCH

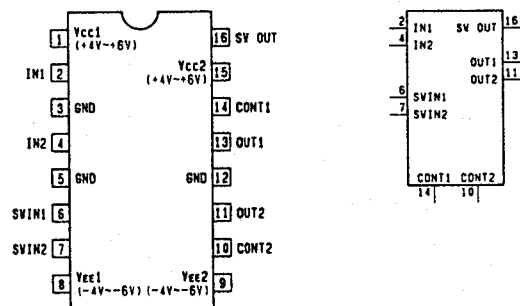
- TOP VIEW -



CXA1451M (SONY)

WIDEBAND VIDEO SWITCH

- TOP VIEW -



INPUT

CONT1, 2 : POWER SAVE CONTROL PIN OF DRV.1 AND DRV.2

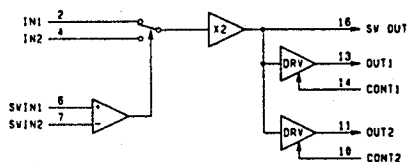
INT1, 2 : 1/2-CHANNEL INPUT PIN

SWIN1, 2 : IN1/IN2 PINS SWITCH CONTROL PIN

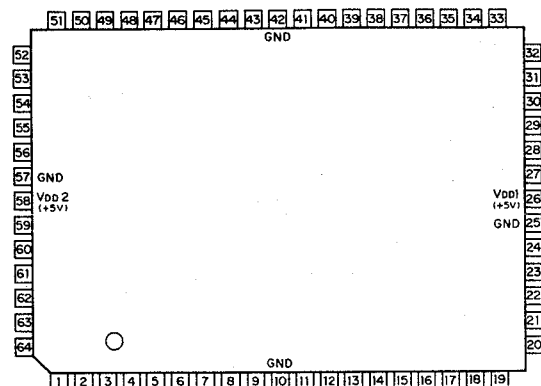
OUTPUT

OUT1, 2 : OUTPUT PIN OF DRV.1/2

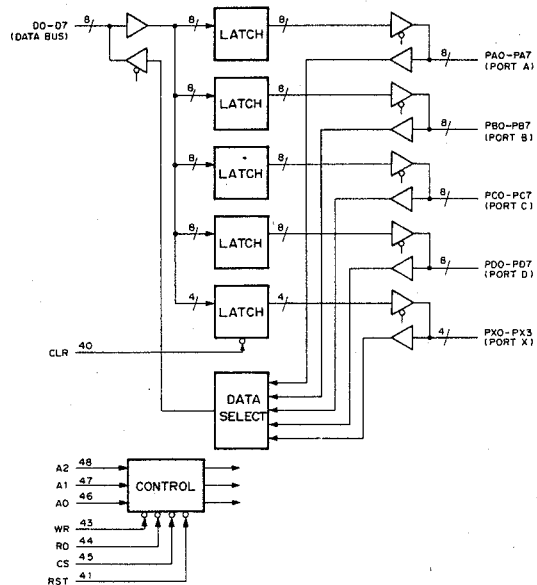
SWOUT : OUTPUTS IN1 PIN OR IN2 PIN WHICH HAS BEEN SELECTED BY SWITCH.



- TOP VIEW -



PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			NC	17	O	O	PC6	33			NC	49	O	O	PX0
2			NC	18	O	O	PC7	34			NC	50	O	O	PX1
3	O	O	PB1	19			NC	35	O	O	D3	51			NC
4	O	O	PB2	20	O	O	PD0	36	O	O	D4	52	O	O	PX2
5	O	O	PB3	21	O	O	PD1	37	O	O	D5	53	O	O	PX3
6	O	O	PB4	22	O	O	PD2	38	O	O	D6	54	O	O	PA0
7	O	O	PB5	23	O	O	PD3	39	O	O	D7	55	O	O	PA1
8	O	O	PB6	24	O	O	PD4	40	O		CLR	56	O	O	PA2
9	O	O	PB7	25			GND	41	O		RST	57			GND
10			GND	26	O		VDD(+5V)	42			GND	58	O		VDD(+5V)
11	O	O	PC0	27	O	O	PD5	43	O		WR	59	O	O	PA3
12	O	O	PC1	28	O	O	PD6	44	O		RD	60	O	O	PA4
13	O	O	PC2	29	O	O	PD7	45	O		CS	61	O	O	PA5
14	O	O	PC3	30	O	O	D0	46	O		A0	62	O	O	PA6
15	O	O	PC4	31	O	O	D1	47	O		A1	63	O	O	PA7
16	O	O	PC5	32	O	O	D2	48	O		A2	64	O	O	PB0

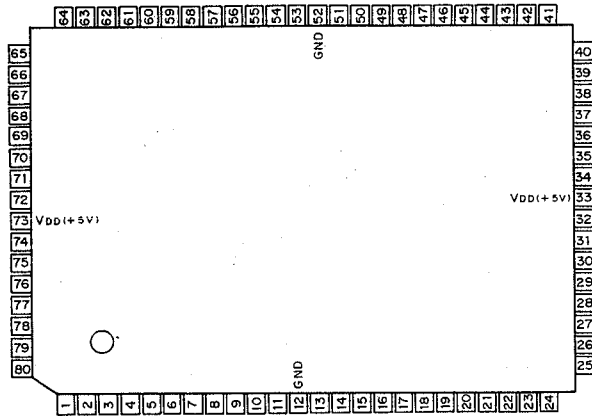


		PA0	24	CS	RD	WR	A2	A1	AO	MODE	
		PA1	25		0	0	1	0	0	PORT A → DATA BUS	
		PA2	26		0	0	1	0	0	1	PORT B → DATA BUS
		PA3	29		0	0	1	0	1	0	PORT C → DATA BUS
		PA4	60		0	0	1	0	1	1	PORT D → DATA BUS
		PA5	61		0	0	1	1	0	0	PORT X → DATA BUS
		PA6	62		0	0	1	1	0	1	---
		PA7	63		0	0	1	1	1	0	---
					0	0	1	1	1	0	---
					0	0	1	1	1	1	---
30	DO				0	1	0	0	0	0	DATA BUS → PORT A
31	D1				0	1	0	0	0	1	DATA BUS → PORT B
32	D2	PB0	64		0	1	0	0	1	1	DATA BUS → PORT C
33	D3	PB1	4		0	1	0	0	1	0	DATA BUS → PORT D
36	D4	PB2	5		0	1	0	0	1	0	DATA BUS → PORT X
37	D5	PB3	6		0	1	0	0	1	1	---
38	D6	PB4	7		0	1	0	0	1	1	DATA BUS → CTL REG. 1
39	D7	PB5	8		0	1	0	1	0	0	DATA BUS → CTL REG. 2
40		PB6	9		0	1	0	1	0	1	---
41	PX0	PB7	9		0	1	0	1	1	0	DATA BUS → CTL REG. 1
42	PX1				0	1	0	1	1	1	DATA BUS → CTL REG. 2
43	PX2	PC0	11		1	X	X	X	X	X	DATA BUS; HI-Z
44	PX3	PC1	12								
45		PC2	13								
46	AO	PC3	14								
47	A1	PC4	15								
48	A2	PC5	16								
49	CS	PC6	17								
50		PC7	18								
51	RD										
52	WR										
53		PDO	20								
54		PD0	21								
55	RST	PD1	22								
56	CLR	PD2	23								
		PD3	24								
		PD4	25								
		PD5	27								
		PD6	28								
		PD7	29								

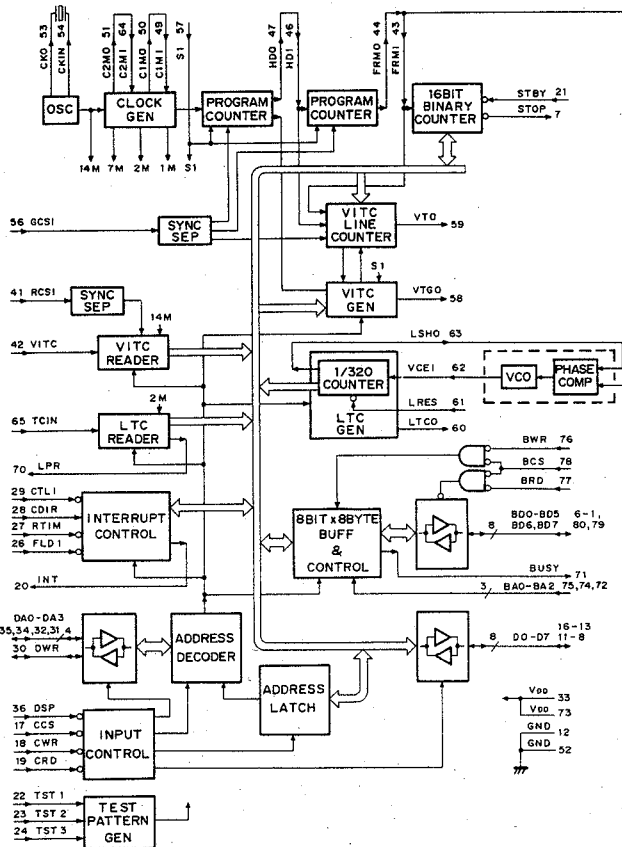
O; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z, HIGH IMPEDANCE

DO-D7, DATA BUS INPUTS/OUTPUTS
CS; CHIP SELECT INPUT
RD; READ STROBE INPUT
WR; WRITE STROBE INPUT
AO-A2; ADDRESS INPUT
RST; RESET INPUT
CLR; CLEAR INPUT
PA0-PA7; PORT A INPUTS/OUTPUTS
PB0-PB7; PORT B INPUTS/OUTPUTS
PC0-PC7; PORT C INPUTS/OUTPUTS
PD0-PD7; PORT D INPUTS/OUTPUTS
PX0-PX3; PORT X INPUTS/OUTPUTS

CXD1132Q (SONY) FLAT PACKAGE
C-MOS TIME CODE GENERATOR/READER
- TOP VIEW -



PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I/O	DB5	17	I	CCS	33	-	V _{DD}	49	I	C1MI	65	I	TCIN			
2	I/O	DB4	18	I	CWR	34	I/O	DA1	50	O	C1MO	66	O	DCLK			
3	I/O	DB3	19	I	CRD	35	I/O	DA0	51	O	C2MO	67	O	DATA			
4	I/O	DB2	20	O	INT	36	I	DSP	52	-	GND	68	O	RFLD			
5	I/O	DB1	21	I	STBY	37	O	DTSE	53	O	CKO	69	O	RDSY			
6	I/O	DB0	22	I	TST1	38	O	VRCK	54	I	CKIN	70	O	LRP			
7	O	STOP	23	I	TST2	39	I	SLLM	55	I	SLCK	71	O	BUSY			
8	I/O	D7	24	I	TST3	40	O	RVDO	56	I	GCSI	72	I	BA2			
9	I/O	D6	25	I	PON	41	I	RCSI	57	I	S1	73	-	V _{DD}			
10	I/O	D5	26	I	FLD1	42	I	VITC	58	O	VTGO	74	I	BA1			
11	I/O	D4	27	I	RTIM	43	I	FRMI	59	O	VTO	75	I	BA0			
12	-	GND	28	I	CDIR	44	O	FRMO	60	O	LTCO	76	I	BWR			
13	I/O	D3	29	I	CTL1	45	O	GLSY	61	I	LRES	77	I	BRD			
14	I/O	D2	30	I/O	DWR	46	I	HDI	62	I	VCEI	78	I	BCS			
15	I/O	D1	31	I/O	DA3	47	O	HDO	63	O	LSHO	79	I/O	BD7			
16	I/O	D0	32	I/O	DA2	48	O	VDO	64	I	C2MI	80	I/O	BD6			



SIGNAL DESCRIPTION

BA0-BA2 B ADDRESS INPUTS
BCS B CHIP ENABLE INPUT ("L":ENABLE)
BD0-BD7 B DATA I/O
BRD B READ INPUT ("L":READ)
BUSY B BUSY OUTPUT
BWR B WRITE INPUT ("L":WRITE)
C1MI SYSTEM CLOCK INPUT
C1MO CLOCK 1 OUTPUT (CKIN X 1/16)
C2MI LTC READ CLOCK INPUT
C2MO CLOCK 2 OUTPUT (CKIN X 1/8)
CCS C CHIP ENABLE INPUT ("L":ENABLE) (when DSP is low)
ADDRESS LATCH ENABLE INPUT ("L":ENABLE) (when DSP is high)
CDIR CTL DIRECTION INPUT
CKIN SYSTEM CLOCK INPUT

VIDEO SIGNAL FORMAT	CKIN
SMPT 29.97HZ 525LINE	14.318MHZ
EBU 25HZ 625LINE	14.500MHZ

CKO CLOCK OUTPUT
CRD C READ INPUT ("L":READ)
CTL1 CTL SIGNAL INPUT
CWR C WRITE INPUT ("L":WRITE)
D0-D7 DATA I/O (when DSP is low)/
ADDRESS INPUTS
DA0-DA3 B ADDRESS INPUTS (when DSP is high)
D ADDRESS OUTPUT (when DSP is low)
DATA DEMODULATED SERIAL DATA OUTPUT
DCLK DEMODULATED CLOCK OUTPUT
DSP DISPLAY BUS SELECT INPUT
DSP controls CCS, DA0-DA3 and DVR.
DTSE VITC DATA SEARCH FLAG OUTPUT
DWR WRITE ENABLE OUTPUT ("L":ENABLE) (when DSP is low)
E ADDRESS 4 INPUT (when DSP is high)
EA4 ADDRESS BUS INPUT
FLD1 FIELD REFERENCE INPUT ("L":FIELD 1)
FRMI FRAME SIGNAL INPUT
FRMO FRAME SIGNAL OUTPUT
GCSI COMPOSITE SYNC INPUT
GLSY LOST SYNC FLAG OUTPUT
HDI HORIZONTAL SYNC INPUT
HDO HORIZONTAL SYNC OUTPUT
INT INTERRUPT REQUEST OUTPUT
LRP LTC READ REQUEST OUTPUT
LRES LTC COUNTER RESET INPUT ("L":RESET)
LSHO SYNCHRONOUS SIGNAL OUTPUT
LTCO LTC SIGNAL OUTPUT
PON SYSTEM RESET INPUT ("L":PON)
RCSI COMPOSITE SYNC INPUT
RDSY READ SYNC WORD DATA OUTPUT
RESS RESET INPUT ("L":RTIM)
RFLD FIELD DATA OUTPUT
RTIM TIME ADDRESS RESET INPUT ("L":RESET)
RVDO VITC READ DATA OUTPUT

S1 SIGNAL FORMAT SELECT INPUT
"H":NTSC/PAL-M 29.94HZ 525LINE
"L":PAL/SECAM 25HZ 625LINE

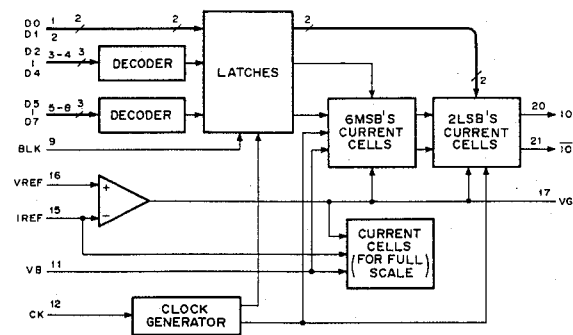
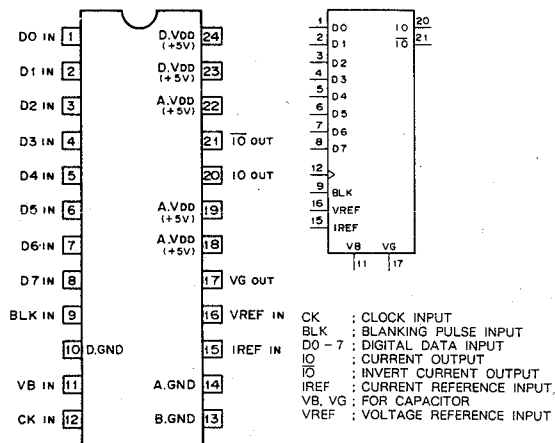
SLCK	"L"	"H"
CKIN	14.318MHZ	14.5MHZ
SMPT	EBU	SMPT
EBU	EBU	EBU

SLLM READ SIZE SELECT INPUT
STBY STANDBY READ FLAG INPUT
STOP STOP OUTPUT ("L":STOP)
TCIN LONGITUDINAL TIME AND CONTROL CODE INPUT
TST1-TST3 TEST INPUT
VCEI LTC CLOCK INPUT
VDO HORIZONTAL SYNC DRIVE OUTPUT
VITC VITC SIGNAL INPUT
VTGO VITC GATE SIGNAL OUTPUT
VTO VITC SIGNAL OUTPUT ("H":VITC)

CXD1171M (SONY) FLAT PACKAGE

C-MOS 8-BIT D/A CONVERTER

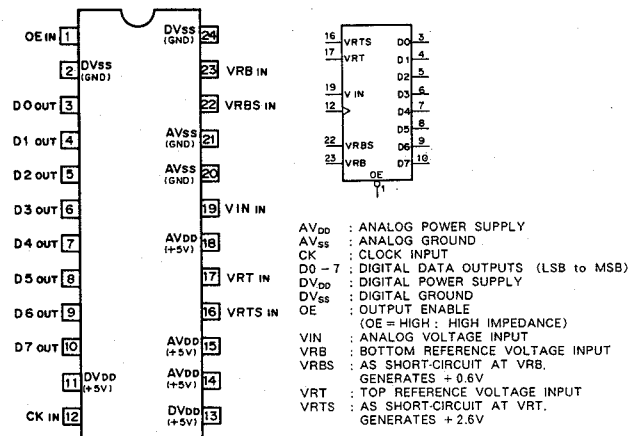
- TOP VIEW -



CXD1175AM (SONY) FLAT PACKAGE

C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER

- TOP VIEW -



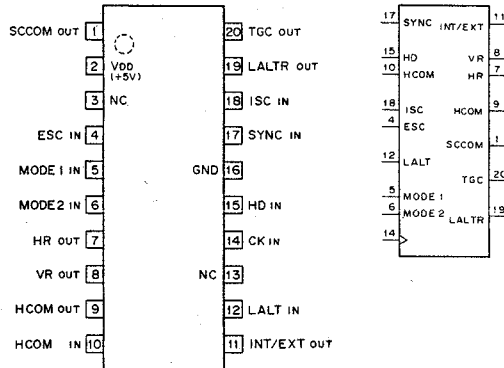
STEP	INPUT SIGNAL VOLTAGE	DATA OUTPUTS							
		D7	D6	D5	D4	D3	D2	D1	D0
0	0V (VRT)	1	1	1	1	1	1	1	1
1	0.01V	1	1	1	1	1	1	1	0
...
127	1.34V	1	0	0	0	0	0	0	0
128	1.35V	0	1	1	1	1	1	1	1
...
255	2.7V (VRTB)	0	0	0	0	0	0	0	0

0 : LOW LEVEL
1 : HIGH LEVEL

CXD1216M (SONY) FLAT PACKAGE

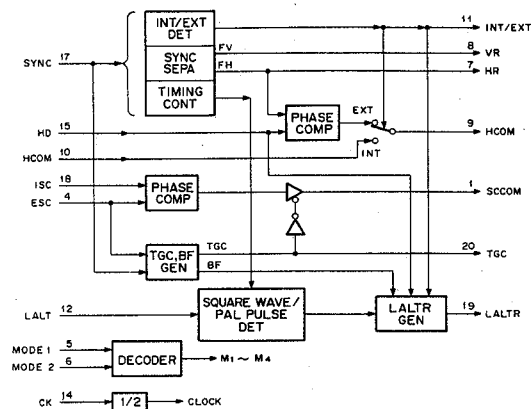
C-MOS GENLOCK DRIVER

- TOP VIEW -



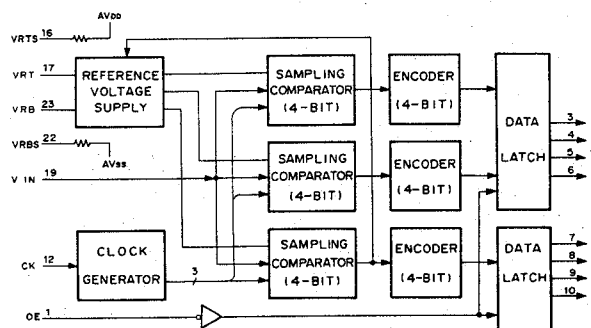
INPUT	MODE1	MODE2	MODE	SYSTEM
0	0	0	M1	PAL-VBS
1	0	0	M2	PALM-VBS
0	1	0	M3	PAL-SECAM-VS/SC/LALT
1	1	1	M4	NTSC-VBS, NTSC-VS/SC, PALM-VS/SC/LALT

0 : LOW LEVEL
1 : HIGH LEVEL

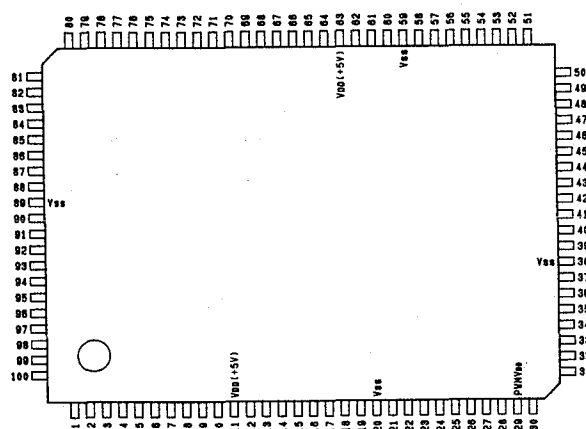


INPUT
CK : 4fsc CLOCK INPUT
ESC : SC/COLOR BURST
HCOM : PHASE COMPARE FROM CXD1217
HD : H DRIVE FROM CXD1217
ISC : SUBCARRIER FROM CXD1217
LALT : LALT FROM REFERENCE SIGNAL GENERATOR
MODE1,2 : SYSTEM SELECT
SYNC : SYNC FROM REFERENCE SIGNAL GENERATOR

OUTPUT
HCOM : PHASE COMPARE HR WITH HD
HR : f_H OF SYNC SEPARATE
INT/EXT : INTERNAL/EXTERNAL SPECIFIED
LALTR : LINE CHANGE RESET
SCCOM : PHASE COMPARE ESC WITH ISC
TGC : TRISTATE CONTROL
VR : f_V OF SYNC SEPARATE

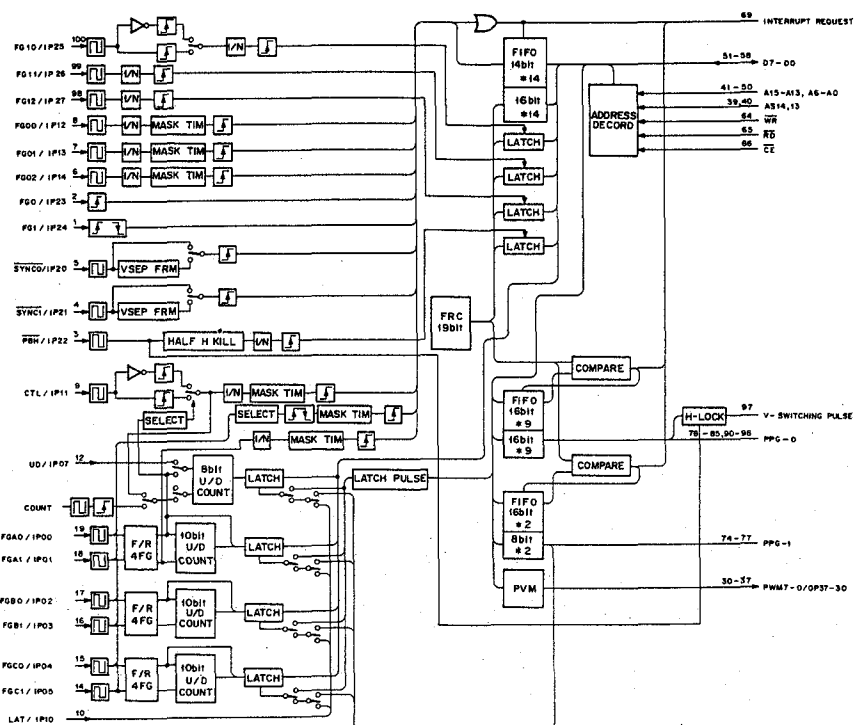
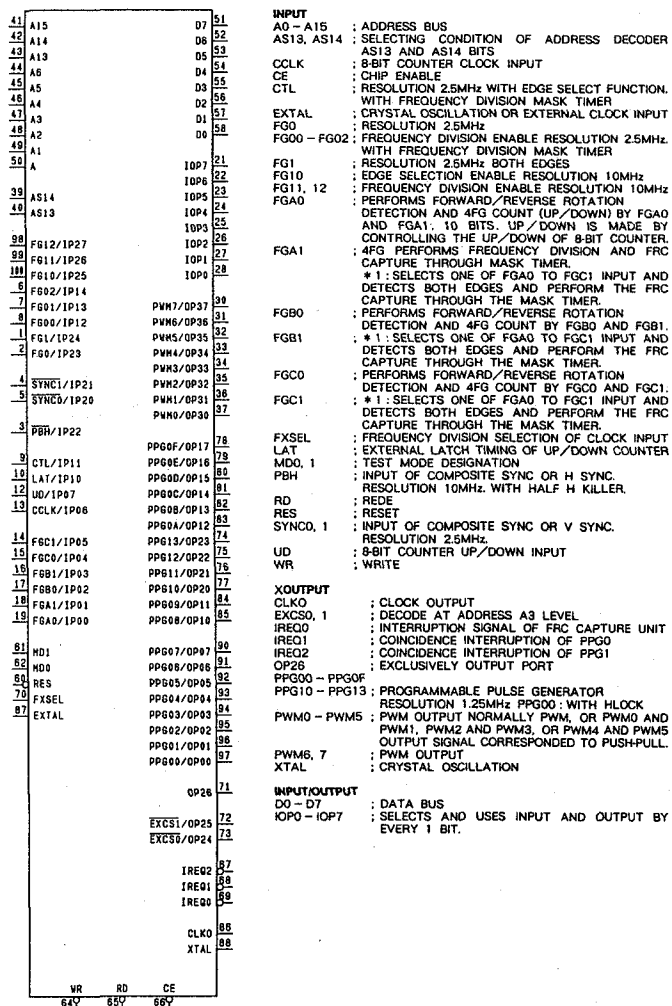


CXD2202Q (SONY)

SERVO IC
- TOP VIEW -

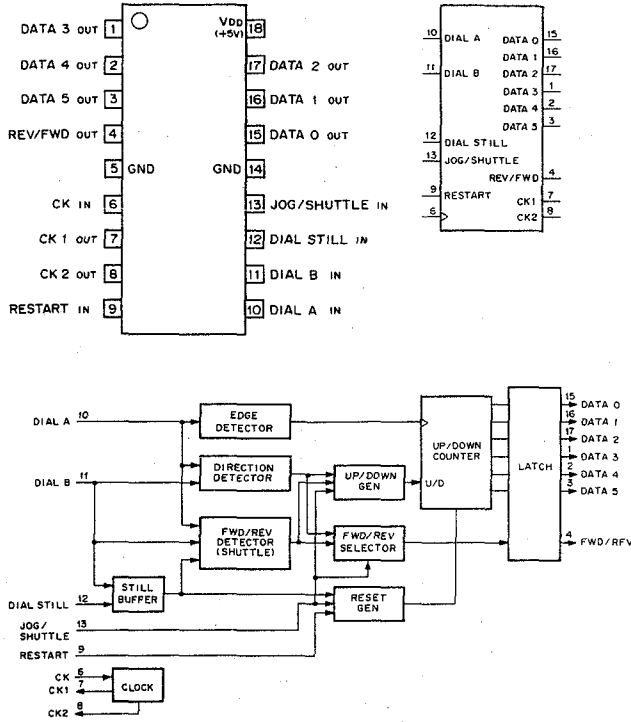
(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	FG1/IP24	26	I/O	IOP2	51	I/O	D7	76	O	PPG11/OP21
2	I	FG0/IP23	27	I/O	IOP1	52	I/O	D6	77	O	PPG10/OP20
3	I	PBH/IP22	28	I/O	IOP0	53	I/O	D5	78	O	PPG0F/OP17
4	I	SYNCT/IP21	29	-	PWM VDD	54	I/O	D4	79	O	PPG0E/OP16
5	I	SYNCO/IP20	30	O	PWM7/OP37	55	I/O	D3	80	O	PPG0D/OP15
6	I	FG02/IP14	31	O	PWM6/OP36	56	I/O	D2	81	O	PPG0C/OP14
7	I	FG01/IP13	32	O	PWM5/OP35	57	I/O	D1	82	O	PPG0B/OP13
8	I	FG00/IP12	33	O	PWM4/OP34	58	I/O	D0	83	O	PPG0A/OP12
9	I	CTL/IP11	34	O	PWM3/OP33	59	-	VSS	84	O	PPG09/OP11
10	I	LAT/IP10	35	O	PWM2/OP32	60	I	RES	85	O	PPG08/OP10
11	-	VDD	36	O	PWM1/OP31	61	I	MD1	86	O	CLKO
12	I	UD/IP07	37	O	PWM0/OP30	62	I	MD0	87	I	EXTAL
13	I	CCLK/IP06	38	-	VSS	63	-	VDD	88	O	XTAL
14	I	FGC1/IP05	39	I	AS14	64	I	WR	89	-	VSS
15	I	FGC0/IP04	40	I	AS13	65	I	RD	90	O	PPG07/OP07
16	I	FGB1/IP03	41	I	A15	66	I	CE	91	O	PPG06/OP06
17	I	FGB0/IP02	42	I	A14	67	O	IREQ2	92	O	PPG05/OP05
18	I	FGA1/IP01	43	I	A13	68	O	IREQ1	93	O	PPG04/OP04
19	I	FGA0/IP00	44	I	A6	69	O	IREQ0	94	O	PPG03/OP03
20	-	VSS	45	I	A5	70	I	FXSEL	95	O	PPG02/OP02
21	I/O	IOP7	46	I	A4	71	O	OP26	96	O	PPG01/OP01
22	I/O	IOP6	47	I	A3	72	O	EXCS1/OP25	97	O	PPG00/OP00
23	I/O	IOP5	48	I	A2	73	O	EXCS0/OP24	98	I	FG12/IP27
24	I/O	IOP4	49	I	A1	74	O	PPG13/OP23	99	I	FG11/IP26
25	I/O	IOP3	50	I	A0	75	O	PPG12/OP22	100	I	FG10/IP25



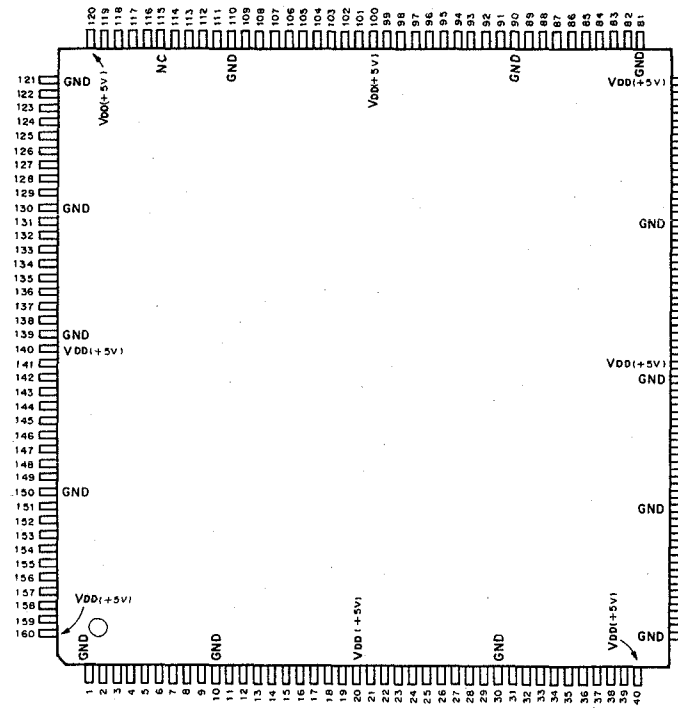
CXD8117P (SONY)

C-MOS DIAL DATA DECODER
- TOP VIEW -



CXD8152Q (SONY) FLAT PACKAGE

C-MOS VIDEO DATA PROCESS/SYNC GUARD/MEMORY CONTROLLER
- TOP VIEW -



(VDD = +5V)															
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.
1	-	GND	41	-	GND	81	-	GND	121	-	GND	161	-	GND	201
2	I	FWDXREY	42	I/O	RMAB	82	O	RBWLN	122	I	DIN9	162	I	DIN8	202
3	I	X13	43	I/O	RYCLR	83	O	COMPBLK	123	I	DIN8	163	I	DIN7	203
4	I	NOIPB	44	I/O	WMAB	84	O	YBLK2	124	I	DIN7	164	I	DIN6	204
5	I	HEE	45	I/O	WYCLR	85	O	YBLK1	125	I	DIN6	165	I	DIN5	205
6	I	HINPHASE	46	I/O	TDT0	86	O	ADYBLK	126	I	DIN5	166	I	DIN4	206
7	I	SHIFTH	47	I	TST5	87	O	ADDTHRU	127	I	DIN4	167	I	DIN3	207
8	O	YSCXEP1	48	I	TST4	88	O	RDIZ	128	I	DIN3	168	I	DIN2	208
9	O	YSCDTPP2	49	I	TST3	89	O	RCK	129	I	DIN2	169	I	DIN1	209
10	-	GND	50	-	GND	90	-	GND	130	-	GND	170	-	GND	210
11	I	OSCON	51	I	TST2	91	O	YCLR2	131	I	DIN1	171	I	DIN0	211
12	I	MOD6	52	I	TST1	92	O	INC2	132	I	DIN0	172	I	WCK	212
13	I	DT	53	I	TST0	93	O	HCLR2	133	I	WCK	173	I	WZ	213
14	I	DTX3	54	I	RLMOFF	94	O	MRCK2	134	I	WZ	174	I	ADYWZ	214
15	I	PBOE	55	I	FLMOFF	95	O	YCLR1	135	I	ADYWZ	175	I	WCLP	215
16	I	DTY	56	I	MOD11	96	O	INC1	136	I	WCLP	176	I	YISCCMUT	216
17	I	SY	57	I	MOD10	97	O	HCLR1	137	I	YISCCMUT	177	I	PRCK	217
18	I	SWP	58	I	MOD7	98	O	MRCK1	138	I	PRCK	178	I	GND	218
19	I	FRX3020	59	-	GND	99	O	YCLR0	139	-	GND	179	-	GND	219
20	-	VDD	60	-	VDD	100	-	VDD	140	-	VDD	180	-	VDD	220
21	O	BINS	61	I/O	BID	101	O	INCO	141	I	PRZ	181	I	PRZ	221
22	O	WINS	62	I/O	BIDDIR	102	O	HCLR0	142	I	PBSYNC	182	I	PBSYNC	222
23	O	BWBLK	63	I	MOD4	103	O	DOCLR	143	O	WBLK	183	O	WBLK	223
24	O	WHITECNT	64	I	MOD3	104	O	MWCK	144	I/O	GH	184	I/O	GH	224
25	I	DO	65	I	MOD2	105	O	WE	145	O	SHW	185	O	SHW	225
26	I/O	PB15H	66	I	MOD1	106	O	DOUT0	146	I/O	SDO1	186	I/O	SDO1	226
27	I/O	PB2H	67	I	JUC	107	O	DOUT1	147	I/O	G8	187	I/O	G8	227
28	O	COUNTERY	68	I	SGBLK	108	O	DOUT2	148	O	WDIZ	188	O	WDIZ	228
29	I/O	PBY	69	I	REFOE	109	O	DOUT3	149	I/O	FBID	189	I/O	FBID	229
30	-	GND	70	-	GND	110	-	GND	150	-	GND	190	-	GND	230
31	O	WRITEY	71	I	READY	111	O	DOUT4	151	I/O	FFB	191	I/O	FFB	231
32	O	WOE	72	I	RZ	112	O	DOUT5	152	I/O	FRB	192	I/O	FRB	232
33	I/O	WYISCID	73	I	R456FH	113	O	DOUT6	153	O	FF30COFF	193	O	FF30COFF	233
34	O	RYISCID	74	I	R2BH	114	O	DOUT7	154	O	FR30HDL	194	O	FR30HDL	234
35	I/O	RYSET	75	I	R2FH	115	-	-	155	I	THRU2	195	I	THRU2	235
36	I/O	WENP	76	I	HCK	116	O	DOUT8	156	I	THRU1	196	I	THRU1	236
37	I/O	RENP	77	I	SDATA	117	O	DOUT9	157	I/O	NOSIG	197	I/O	NOSIG	237
38	I	LEYTST	78	I	SLD	118	O	SDO2WDO	158	O	PDSCONT	198	O	PDSCONT	238
39	I	CLR	79	I	SCK	119	I	HOE	159	O	SPDPWM	199	O	SPDPWM	239
40	-	VDD	80	-	VDD	120	-	VDD	160	-	VDD	200	-	VDD	240

132	DINO	106	DOU0
131	DIN1	107	DOU1
129	DIN2	108	DOU2
128	DIN3	109	DOU3
127	DIN4	111	DOU4
126	DIN5	112	DOU5
125	DIN6	113	DOU6
124	DIN7	114	DOU7
123	DIN8	116	DOU8
122	DIN9	117	DOU9
133	WCK	83	COMPLK
134	WZ	84	VBK2
135	ADVWZ	85	VBK1
136	WCLP	86	ADVBLK
142	PB SYNC	87	ADDTHRU
18	SWP	88	RDIZ
25	DO	89	RCK
137	VISCCMUT	103	DOCLR
2	FWDXREV	102	HCLRO
3	X13	97	HCLR1
4	NOIPB	93	HCLR2
5	HEE	99	VCLR0
6	HINPHASE	95	VCLR1
7	SHIFTH	91	VCLR2
13	DT	101	INC0
14	DTX3	96	INC1
16	DTV	92	INC2
17	SVV	105	WE
29	PBV	104	MWCK
15	PBOE	98	MRCK1
67	JUC	94	MRCK2
68	SGBLK	143	WBLK
69	REFOE	144	GH
71	READV	145	SHW
35	RVSET	146	SDO1
72	RZ	119	SDO2WDO
73	R456FH	147	GB
74	R2BH	148	WDIZ
75	R2FH	149	FBID
76	HCK	151	FFB
19	FRX3020	152	FFB
38	LEVST	157	NOISG
39	CLR	156	POSCONT
54	RLMOFF	153	SPDPWM
55	FLMOFF	154	FF30COFF
155	THRU1	154	FR30HDL
156	THRU2	82	RWSEL
157	NOSIG		
119	HOE		
130	PRCK		
131	PRZ		
77	SDATA		
78	SLO		
79	SCK		
36	NEUP		
37	REUP		
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157	REUP		

INPUT

ADVWZ : 66 CLOCK in ADVANCE of WRITE ZERO

CLR : L: CLEAR

DINO - DIN9 : INPUT VIDEO DATA 2⁹-2⁹

DO : L: DROP OUT PULSE

DT : L: DYNAMIC TRACKING MODE V REFERENCE PULSE

DTV : DYNAMIC TRACKING MODE V REFERENCE PULSE

DTX3 : L: DYNAMIC TRACKING 3 TIMES NORMAL SPEED

FLM OFF : H: FORWARD LIMITER OFF

FRX3020 : MORE THAN 20 or 30 TIMES NORMAL SPEED SELECT SWITCH

FWDXREV : H: FORWARD, L: REVERSE

HCK : READ CLOCK (13.5 or 14.3 MHz)

HEE : H: VIDEO EE

HINPHASE : L: COLOR FRAMING DISCORD

HOE : H: COLOR FRAMING IN PHASE

JUC : H: DATA OUTPUT ENABLE

LEVST : H: JAPAN, L: USA/CANADA

MOD1 : L: VIDEO LEVEL TEST

MOD2 : H: 525, L: 625

MOD3 : H: NTSC SECAM, L: PAL PAL-M

MOD4 : H: 14.3 MHz, L: 13.5 MHz

MOD5 : H: READ EXPANDER, L: WRITE EXPANDER

MOD6 : L: EXTERNAL PB OUTPUT ENABLE SELECT

MOD7 : H: Y, L: CHROMA

MOD10 : L: Y/C SYNCHRONOUS MODE

MOD11 : H: READ DO PROCESS, L: WRITE DO PROCESS

NOIPB : L: NORMAL PB, DT: EF

OSCON : H: REFERENCE OSCILLATOR ON

PBOE : PB ODD/EVEN FIELD ID (H: ODD)

PB SYNC : SYNC. SEPARATED FROM PB VIDEO

PRCK : READ CLOCK for WRITE EXPANDER

PRZ : READ ZERO for WRITE EXPANDER

R2BH : READ SYSTEM 2H BLANKING

R2FH : READ SYSTEM 2FH CLOCK

R456FH : READ SYSTEM 4.5 and 6FH CLOCK

READV : READ SYSTEM REFERENCE V

REFOE : READ SYSTEM ODD/EVEN FIELD ID (H: ODD)

RLMOFF : H: REVERSE LIMITER OFF

RZ : READ REFERENCE EDGE OF MEMORY

SCK : SERIAL CLOCK

SDATA : SERIAL DATA

SGBLK : L: COMPOSITE BLANKING PULSE

SHIFTH : L: SHIFT INHIBIT

SLD : SERIAL STORBE PULSE

SVV : SERVO V REFERENCE

SWP : SWITCHING PULSE

THRU1 : L: CYCLE THROUGH

THRU2 : L: WIDTH THROUGH

TST0-5 : TEST MODE

VBSCMUT : PB VISC/CHROMA MUTE

WCK : WRITE CLOCK

WCLP : WRITE CLAMP PULSE

WZ : WRITE ZERO

X13 : L: MORE THAN ±13 TIMES NORMAL SPEED

OUTPUT

ADDTHRU : YSQ→L: ADD THROUGH, CSQ→L: SECAM COMPOSITE V TOP

ADVBLK : Y: ADD CONTROL

BINS : H: BLACK REF INSERT PULSE

BWBLK : L: BLACK & WHITE REF BLANKING PULSE

COMPLK : L: COMPOSITE BLANKING

COUNTERV : COUNTER V/RVL

DOCLR : WRITE H CLEAR PULSE

DOU0-9 : OUTPUT VIDEO DATA 2⁰-2⁹

FF30COFF : L: MORE THAN +30 TIMES NORMAL SPEED/L: CHROMA OFF

FR30HDL : L: MORE THAN -30 TIMES NORMAL SPEED/L: CHROMA OFF

/L: COLOR FRAMING DISCORD H SHIFT

HCLRO : WRITE MEMORY LINE ADDRESS COUNTER CLEAR PULSE

HCLR1, 2 : READ MEMORY LINE ADDRESS COUNTER CLEAR PULSE

INCO : WRITE MEMORY LINE ADDRESS COUNTER CLOCK

INC1, 2 : READ MEMORY LINE ADDRESS COUNTER CLOCK

MRCK1, 2 : READ MEMORY CLOCK

MWCK : WRITE MEMORY CLOCK

PDSCONT : A/D CLAMP CONTROL

RBWLN : BLACK/WHITE LEVEL DIFFERENCE INSERT LINE

RCK : READ MEMORY AFTER CLOCK

RDIZ : READ SYSTEM LINE ALTERNATE

RVISCID : L: VISC & DET LINE (525: 11 LINE, 625: 8 LINE)

/L: COLOR FRAMING ID BLANKING PULSE (525: 15 LINE, 625: 12 LINE)

SDO2WDO : STRETCH ED DO PULSE

SHW : WINDOW TO DETECT HORIZONTAL SYNC

SPDPWM : PB SPEED PWM

VBK1 : V BLANKING PULSE

VBK2 : ENR DO INHIBIT PULSE

VCLR0 : WRITE MEMORY LINE ADDRESS COUNTER CLEAR PULSE

VCLR1, 2 : READ MEMORY LINE ADDRESS COUNTER CLEAR PULSE

VSCDTP2 : H: PB VISC PHASE COMPARISON ENABLE PULSE 1H: CFID (-)

VSCXFP1 : L: PB VISC EXIST/H: CFID (+)

WBLK : VIDEO BLANKING USED IN DETECTING HORIZONTAL SYNC

WE : L: WRITE ENABLE

WDIZ : WRITE SYSTEM LINE ALTERNATE

WHITECNT : WHITE CONTROL

WINS : H: WHITE REF INSERT PULSE

WOE : YSQ OUTPUT TO PB OE OF CSQ

WRITEV : YSQ OUTPUT TO PB V OF CSQ

INPUT/OUTPUT

BID : L: BIDIREX

BIDIR : H: FORWARD, L: REVERSE

FBID : L: FAST BIDIREX

FFB : L: FAST FORWARD BIDIREX

FRB : L: REVERSE BIDIREX

GB : L: GUARD BAND

GH : GATED H SYNC

NOSIG : L: NO SIGNAL

PB16H : ADVANCE WRITE ZERO RESET, 16 TIMES H RATE

PB2H : PB V RESET, 2 TIMES H RATE

PBV : Y NORMAL PB V REFERENCE PULSE

REUP : L: READ EXTRACT INHIBIT PULSE

RMAB : READ EXJ ROT PULSE

RVCLR : READ V CLEAR LINE

RVSET : YSQ OUTPUT TO READ V OF CSQ

SDO1 : STRETCH ED DO PULSE

TDTO : TIME CODE DATA

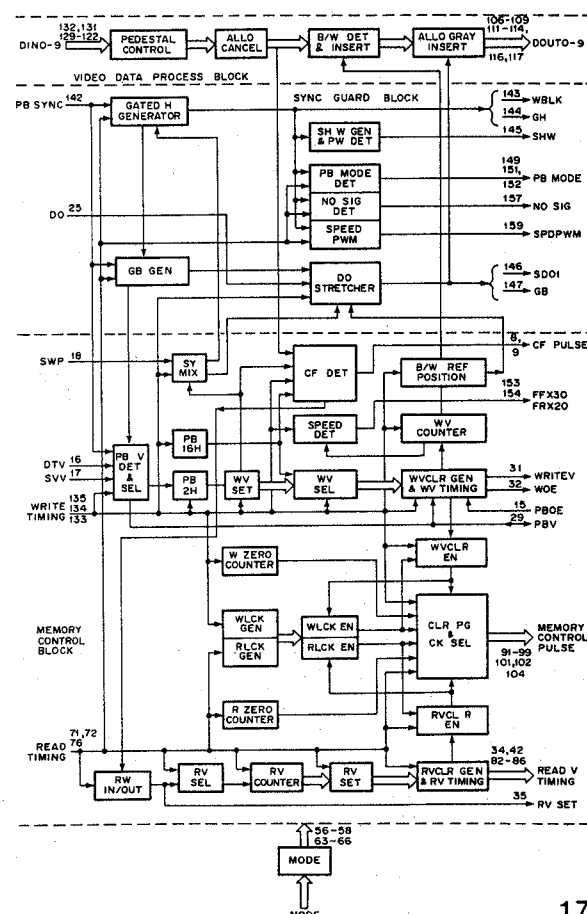
WENP : L: WRITE EXTRACT INHIBIT PULSE

WMAB : WRITE EXTRACT PULSE

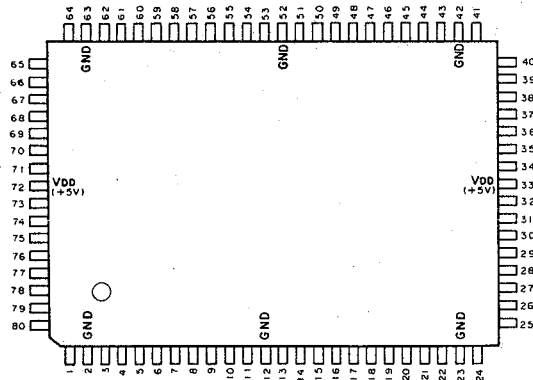
WVCLR : WRITE V CLEAR LINE

WVISCID : L: PB VISC BLANKING PULSE (525: 11 LINE, 625: 8 LINE)

/L: CFID BLANKING PULSE (525: 15 LINE, 625: 12 LINE)



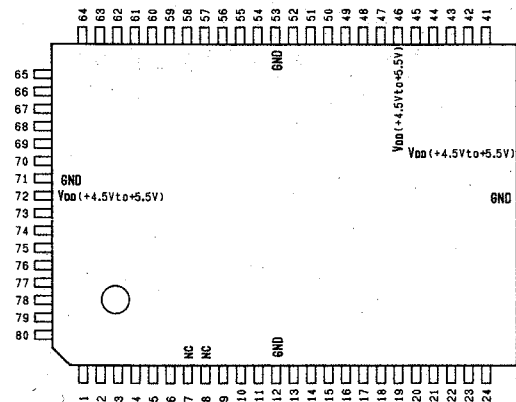
CXD8160Q (SONY) FLAT PACKAGE
C-MOS DIGITAL CHROMA EXPANDER
- TOP VIEW -



PIN ASSIGNMENT (VDD = +5V)

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	TLOAD	21	I	L: DT	41	O	RY1	61	O	BY6
2	-	GND	22	I	TRST	42	-	GND	62	O	BY7
3	I	CK	23	-	GND	43	O	RY2	63	-	GND
4	I	LBID	24	I	CIN0	44	O	RY3	64	O	BY8
5	I	LCBLK	25	I	CIN1	45	O	RY4	65	O	BY9
6	I	LVBLK	26	I	CIN2	46	O	RY5	66	I	LENBY
7	I	LBV	27	I	CIN3	47	O	RY6	67	I	HSYNC
8	I	XTRE	28	I	CIN4	48	O	RY7	68	I	DTSTB
9	I	XTWE	29	I	CIN5	49	O	RY8	69	I	SLD
10	O	TROO	30	I	CIN6	50	O	RY9	70	O	S OUT
11	O	TRO1	31	I	CIN7	51	I	LENRY	71	I	S DATA
12	-	GND	32	I	CIN8	52	-	GND	72	I	SCK
13	I	LFRCOMB	33	-	VDD	53	I	TRIO	73	-	VDD
14	I	LCOMB OFF	34	I	CIN9	54	I	XMM	74	I	XTST0
15	I	L625	35	I	TRI1	55	O	BY0	75	I	XTST1
16	I	LC MUTE1	36	I	TRI2	56	O	BY1	76	I	XTST2
17	I	LC MUTE2	37	I	TRI3	57	O	BY2	77	I	XTST3
18	I	LC MPLX	38	I	TRI4	58	O	BY3	78	-	-
19	I	L3S4	39	I	TRI5	59	O	BY4	79	O	ENS0
20	I	LAP OFF	40	O	RY0	60	O	BY5	80	O	ENS1

CXD8176Q (SONY)
C-MOS GATE ARRAY
- TOP VIEW -

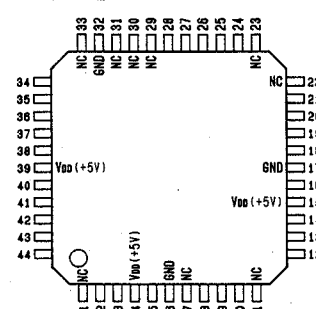


PIN ASSIGNMENT (VDD = +4.5V to +5.5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	DOL	21	I/O	D7R	41	I/O	D6M	61	I	A10L
2	I	WRL	22	I/O	D6R	42	I/O	D5M	62	I	A9L
3	I	RDL	23	I/O	D5R	43	I/O	D4M	63	I	A8L
4	O	WAIL	24	I/O	D4R	44	I/O	D3M	64	I	A7L
5	I	CSL	25	I/O	D3R	45	I/O	D2M	65	I	A6L
6	I	CKL	26	I/O	D2R	46	-	VDD	66	I	A5L
7	-	NC	27	I/O	D1R	47	I/O	D1M	67	I	A4L
8	-	NC	28	I/O	D0R	48	I/O	D0M	68	I	A3L
9	I	A10R	29	I	WRR	49	O	A0M	69	I	A2L
10	I	A9R	30	I	RDR	50	O	A1M	70	I	A1L
11	I	A8R	31	O	WAIR	51	O	A2M	71	-	GND
12	-	GND	32	I	CSR	52	O	A3M	72	-	VDD
13	I	A7R	33	-	GND	53	-	GND	73	I	A0L
14	I	A6R	34	-	VDD	54	O	A4M	74	I/O	D7L
15	I	A5R	35	I	CKR	55	O	A5M	75	I/O	D6L
16	I	A4R	36	I	CKT	56	O	A6M	76	I/O	D5L
17	I	A3R	37	O	WEM	57	O	A7M	77	I/O	D4L
18	I	A2R	38	O	OEM	58	O	A8M	78	I/O	D3L
19	I	A1R	39	O	CEM	59	O	A9M	79	I/O	D2L
20	I	A0R	40	I/O	D7M	60	O	A10M	80	I/O	D1L

24	CIN0	RY0	40	INPUT	
25	CIN1	RY1	41	CIN0 - CIN9	: COMPLEXED CHROMA DATA (10 bit)
26	CIN2	RY2	42	CK	: SYSTEM CLOCK
27	CIN3	RY3	43	DTSTB	: TEST MODE B-Y/R-Y STROBE
28	CIN4	RY4	44	HSYNC	: HORIZONTAL SYNC
29	CIN5	RY5	45	L3S4	: L: COMPRESS BY 3/4
30	CIN6	RY6	46	L625	: LIMITER LEVEL (H: 12.5%, L: 6.25%)
31	CIN7	RY7	47	LAP OFF	: L: SIN (X) /X CORRECTION OFF
32	CIN8	RY8	48	LBID	: L: BIDIREX
33	CIN9	RY9	49	LBV	: COMPLEXED CHROMA DATA POSITION (H: R-Y, L: B-Y)
34			50	LCBLK	: COMPOSITE BLANKING
35			51	LCOMB OFF	: L: COMB FILTER OFF MODE
36			52	LCMPLX	: L: COMPLEX
37			53	LC MUTE1, 2	: L: CHROMA DATA MUTE
38			54	LDT	: L: DYNAMIC TRACKING MODE
39			55	LENBY	: BY ENABLE
40			56	LENRY	: R-Y ENABLE
41			57	LFRCOMB	: L: COMB FILTER ON MODE
42			58	LVBLK	: V BLANKING
43			59	SCK	: SERIAL CLOCK
44			60	S DATA	: SERIAL DATA
45			61	SLD	: SERIAL LATCH PULSE
46			62	TLOAD	: TEST MODE
47			63	TRIO - TRI5	: TEST MODE
48			64	TRST, XMM	: TEST MODE
49			65	XTRE	: TEST MODE
50			66	XTST0 - 3	: TEST MODE
51			67	XTWE	: TEST MODE
52			68		
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CXD8177Q (SONY)
DT Y/C DELAY DETECTOR
- TOP VIEW -

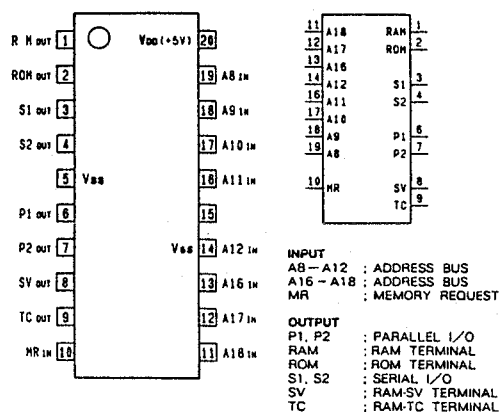


PIN ASSIGNMENT (VDD = +5V)

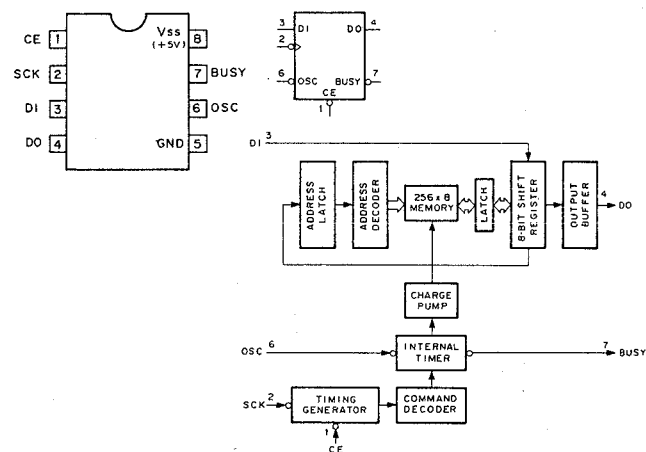
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	NC	23	-	NC
2	I	YSH	24	I	EN
3	I	CSH	25	I	LAT1
4	-	VDD	26	I	LAT2
5	I	CLK	27	I	REST
6	-	GND	28	I	TEST
7	-	NC	29	-	NC
8	I	CSB	30	-	NC
9	I	RDB	31	-	NC
10	I	A0	32	-	GND
11	-	NC	33	-	NC
12	O	B00	34	O	SIGN
13	O	B01	35	O	AB0
14	O	B02	36	O	AB1
15	-	VDD	37	O	AB2
16	O	B03	38	O	AB3
17	-	GND	39	-	VDD
18	O	B04	40	O	AB4
19	O	B05	41	O	AB5
20	O	B06	42	O	AB6
21	O	B07	43	O	AB7
22	-	NC	44	O	AB8

	2	YSH	AB0
	3	CSH	AB1
			AB2
	8	CSB	AB3
	9	ROB	AB4
	10	A0	AB5
			AB6
	25	LAT1	AB7
	26	LAT2	AB8
	5	CLK	B0B
	24	EN	B0C
	27	TEST	B0D
	28	REST	B0E
			B0F
			B0G
			B0H
			SIGN
A0	:D	A0	
AB1	:D	DATA	OUT 0
AB2	:D	DATA	OUT 1
AB3	:D	DATA	OUT 2
AB4	:D	DATA	OUT 3
AB5	:D	DATA	OUT 4
AB6	:D	DATA	OUT 5
AB7	:D	DATA	OUT 6
AB8	:D	DATA	OUT 7
B0D	:D	DATA	OUT 8
B0E	:D	DATA	IN 0
B0F	:D	DATA	IN 1
B0G	:D	DATA	IN 2
B0H	:D	DATA	IN 3
B0I	:D	DATA	IN 4
B0J	:D	DATA	IN 5
B0K	:D	DATA	IN 6
B0L	:D	DATA	IN 7
CLK	:C	CLOCK	
CSB	:C	CS	
CSH	:C	SAMPLING HOLD	
EN		ENABLE	
LAT1		LATCH 1	
LAT2		LATCH 2	
ROB		RD RO	
REST		RESET	
SIGN		SIGN	
YSH		Y SAMPLING HOLD	

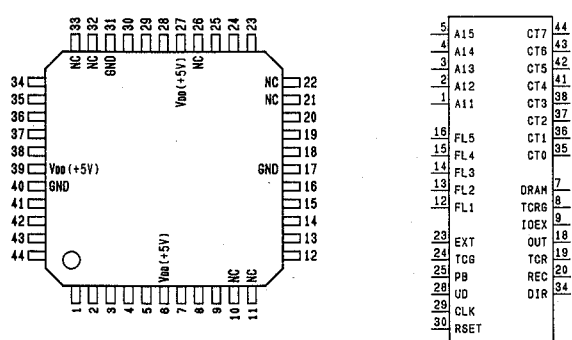
CXD8310M (SONY)

C-MOS GATE ARRAY
- TOP VIEW -

CXK1013P (SONY)

MNOS 2K (256x8)-BIT NON-VOLATILE MEMORY
- TOP VIEW -

CXD8311Q (SONY) FLAT PACKAGE

TIME CODE u-COM INTERFACE
- TOP VIEW -

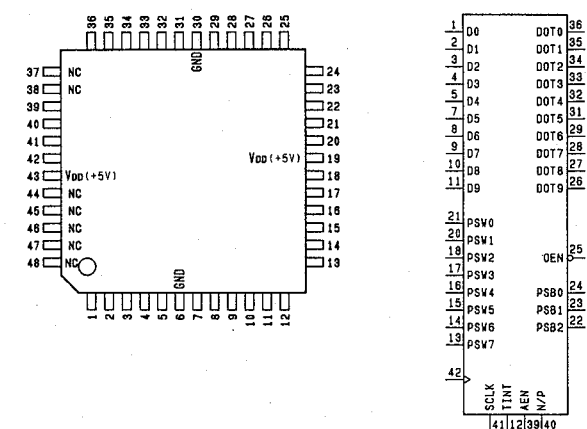
(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	A11	12	I	FL1	23	I	EXT	34	O	DIR
2	I	A12	13	I	FL2	24	I	TCG	35	O	CT0
3	I	A13	14	I	FL3	25	I	PB	36	O	CT1
4	I	A14	15	I	FL4	26	-	NC	37	O	CT2
5	I	A15	16	I	FL5	27	-	VDD	38	O	CT3
6	-	VDD	17	-	GND	28	I	UD	39	-	VDD
7	O	DRAM	18	O	OUT	29	I	CLK	40	-	GND
8	O	TCRG	19	O	TCR	30	I	RSET	41	O	CT4
9	O	IOEX	20	O	REC	31	-	GND	42	O	CT5
10	-	NC	21	-	NC	32	-	NC	43	O	CT6
11	-	NC	22	-	NC	33	-	NC	44	O	CT7

INPUT
A11-A15 : ADDRESS BUS
CLK : EDIT CTL
EXT, TCG, PB : TIME CODE INPUT
FL1-FL5 : TIME CODE SELECT SWITCH
RSET : RESET PULSE
UD : TAPE DIRECTION

OUTPUT
CT0-CT7 : CTL COUNTER OUT
DIR : LATCHED DIRECTION
DRAM, TCRG, IOEX : CHIP SELECT
OUT, TCR, REC : SELECTED TIME CODE

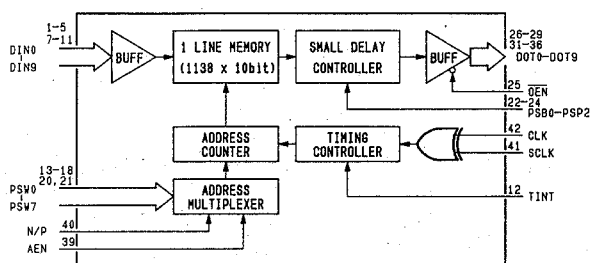
CXK1203Q (SONY)

C-MOS DIGITAL LINE MEMORY
- TOP VIEW -

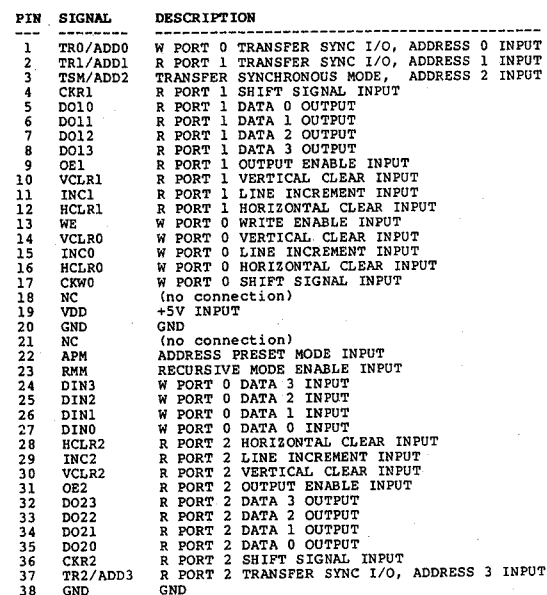
(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	D0	13	I	PSW7	25	I	OEN	37	-	NC
2	I	D1	14	I	PSW6	26	O	DOT9	38	-	NC
3	I	D2	15	I	PSW5	27	O	DOT8	39	I	AEN
4	I	D3	16	I	PSW4	28	O	DOT7	40	I	N/P
5	I	D4	17	I	PSW3	29	O	DOT6	41	I	SCLK
6	-	GND	18	I	PSW2	30	-	GND	42	I	CLK
7	I	D5	19	-	VDD	31	O	DOT5	43	-	VDD
8	I	D6	20	I	PSW1	32	O	DOT4	44	-	NC
9	I	D7	21	I	PSW0	33	O	DOT3	45	-	NC
10	I	D8	22	I	PSB2	34	O	DOT2	46	-	NC
11	I	D9	23	I	PSB1	35	O	DOT1	47	-	NC
12	I	TINT	24	I	PSB0	36	O	DOT0	48	-	NC

AEN : LINE MEMORY SELECT
CLK : CLOCK
DIN0-DIN9 : VIDEO DATA INPUT
DOT0-DOT9 : VIDEO DATA OUTPUT
N/P : NTSC/PAL/SECAM SELECT
OEN : OUTPUT ENABLE
PSB0-PSB2 : DELAY STEP SELECT (1 BIT X N)
PSW0-PSW7 : DELAY STEP SELECT (8 BIT X N)
SCLK : CLOCK EDGE SELECT
TINT : TEST



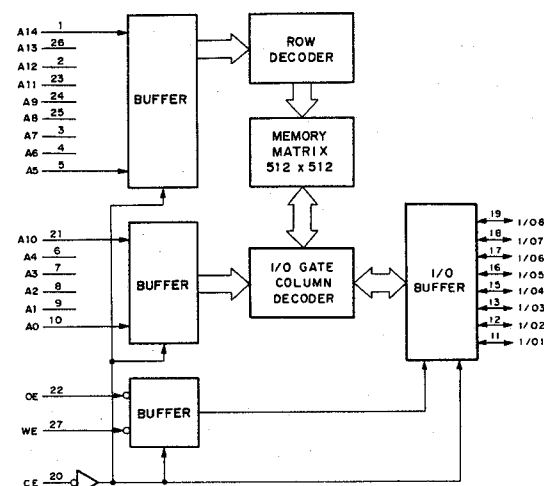
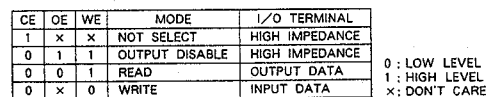
C-MOS VIDEO FIELD MEMORY (960-COLUMNx306-ROWx4-BIT)
- TOP VIEW -



MODE SELECTION					
CONTROL INPUTS			TS, TR/ADD		MODE
RM	APM	TSM	TR 0-2	ADD 0-3	
0	0	0	OUT PUT	-	NON RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE OUTPUT
0	0	1	IN- PUT	-	NON RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE INPUT
0	1	-	-	IN- PUT	NON RECURSIVE MODE, ADDRESS PRESET MODE
1	0	0	OUT PUT	-	RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE OUTPUT
1	0	1	IN- PUT	-	RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE INPUT

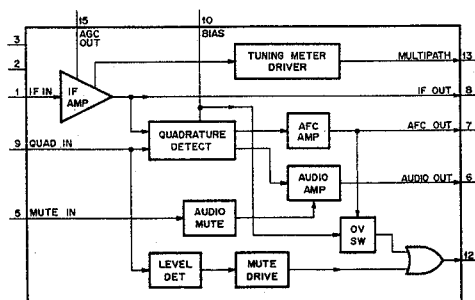
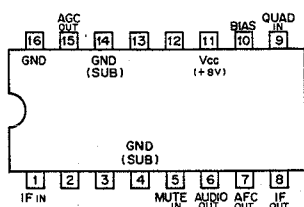
0:LOW LEVEL 1:HIGH LEVEL

C-MOS 256K (32768x8)-BIT STATIC RAM
- TOP VIEW -



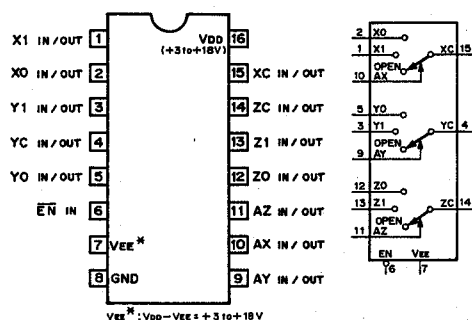
HA12411 (HITACHI)

FM IF AMPLIFIER
 QUADRATURE DETECT
 AUDIO AMPLIFIER
 MUTING
 AFC
 AGC
 TUNING METER DRIVER



HD14053BFP (HITACHI) FLAT PACKAGE
 UPD4053BC (NEC)

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS
 - TOP VIEW -



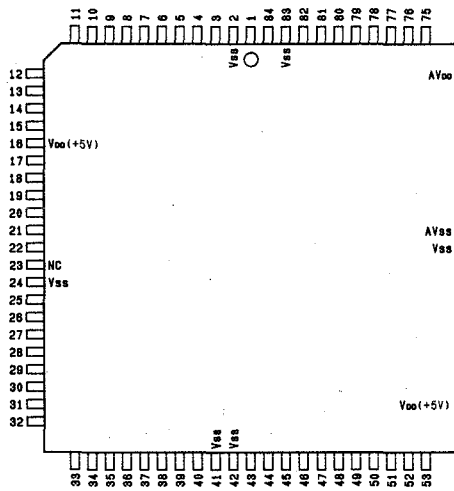
VEE*: VDD - VEE = +3 to +18 V

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE.

CONT. INPUTS		ON CHANNEL
EN	A (X,Y,Z)	
0	0	0
0	1	1
1	X	OPEN

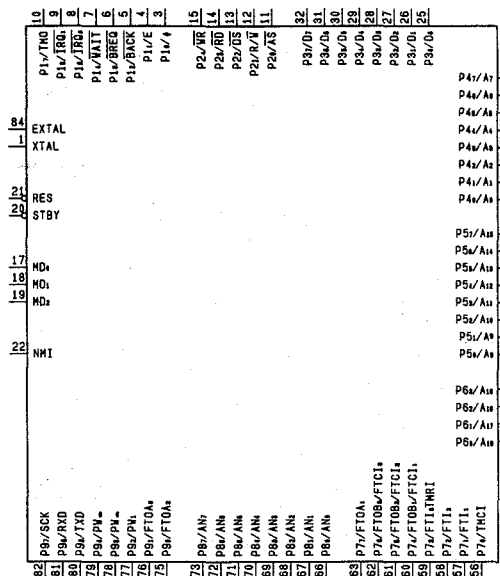
HD6475328CP10 (HITACHI)

16-BIT CPU
- TOP VIEW -



(VDD = +5V)

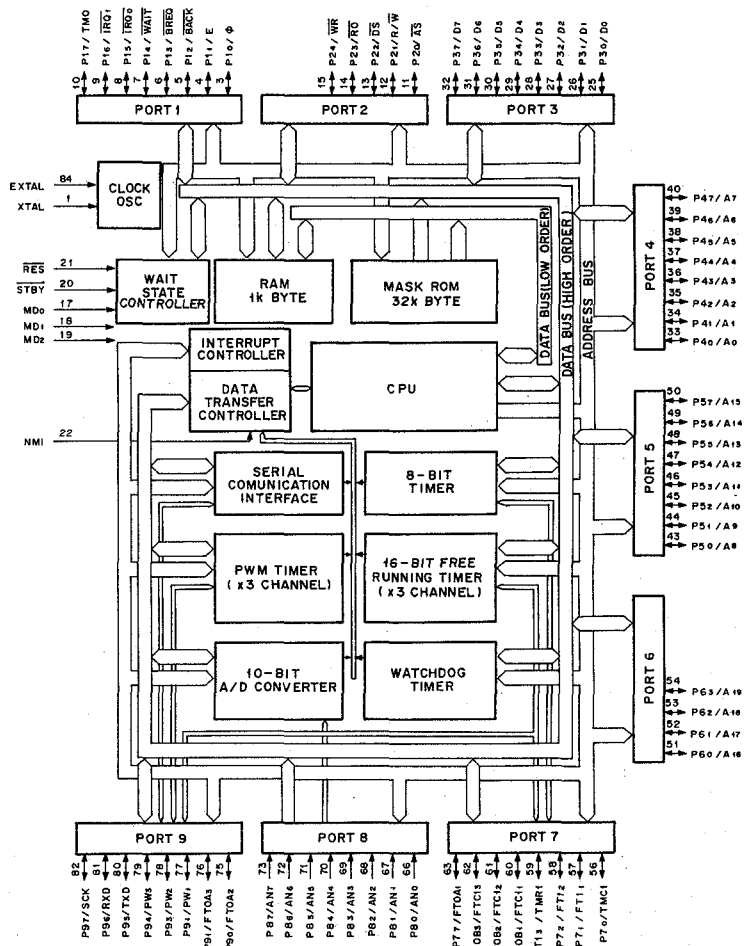
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	XTAL	29	I/O	P34/D4	57	I/O	P71/FTI1
2	-	Vss	30	I/O	P35/D5	58	I/O	P72/FTI2
3	I/O	P10/φ	31	I/O	P36/D6	59	I/O	P73/FTI3/TMRI
4	I/O	P11/E	32	I/O	P37/D7	60	I/O	P74/FTO81/FTO1
5	I/O	P12/BACK	33	I/O	P40/A0	61	I/O	P75/FTO82/FTO2
6	I/O	P13/BREQ	34	I/O	P41/A1	62	I/O	P76/FTO83/FTO3
7	I/O	P14/WAIT	35	I/O	P42/A2	63	-	P77/FTOA1
8	I/O	P15/IRQ0	36	I/O	P43/A3	64	-	Vss
9	I/O	P16/IRQ1	37	I/O	P44/A4	65	-	AVss
10	I/O	P17/TMO	38	I/O	P45/A5	66	I/O	P80/ANO
11	I/O	P20/AS	39	I/O	P46/A6	67	I/O	P81/AN1
12	I/O	P21/R/W	40	I/O	P47/A7	68	I/O	P82/AN2
13	I/O	P22/DS	41	-	Vss	69	I/O	P83/AN3
14	I/O	P23/RD	42	-	Vss	70	I/O	P84/AN4
15	I/O	P24/WR	43	I/O	P50/A8	71	I/O	P85/AN5
16	-	Vcc	44	I/O	P51/A9	72	I/O	P86/AN6
17	I	MD0	45	I/O	P52/A10	73	I/O	P87/AN7
18	I	MD1	46	I/O	P53/A11	74	-	AVcc
19	I	MD2	47	I/O	P54/A12	75	I/O	P90/FTOA2
20	I	STBY	48	I/O	P55/A13	76	I/O	P91/FTOA3
21	I	RES	49	I/O	P56/A14	77	I/O	P92/PW1
22	I	NMI	50	I/O	P57/A15	78	I/O	P93/PW2
23	-	NC	51	I/O	P60/A16	79	I/O	P94/PW3
24	-	Vss	52	I/O	P61/A17	80	I/O	P95/TXD
25	I/O	P30/D0	53	I/O	P62/A18	81	I/O	P96/RXD
26	I/O	P31/D1	54	I/O	P63/A14	82	I/O	P97/SCK
27	I/O	P32/D2	55	-	Vcc	83	-	Vss
28	I/O	P33/D3	56	I/O	P70/TMCI	84	I	EXTAL



INPUT
 AN0 - AN7 : ANALOG INPUT
 BREQ : BUS REQUEST
 EXTRAL : CONNECTED TO CRYSTAL OSCILLATOR.
 FTCl1 - FTCl3 : FRT COUNTER CLOCK INPUT (CHANNEL 1 TO 3)
 FTI1 - FTI3 : FRT INPUT CAPTURE INPUT (CHANNEL 1 TO 3)
 IRQ0, 1 : INTERRUPTION REQUEST 0 AND 1
 MD0 - MD2 : MODE SETTING
 NMI : NON MASKABLE INTERRUPTION
 P80 - P87 : PORT 8
 RES : RESET
 RXD : RECEIVE DATA
 SYBY : STANDBY
 TMCI : 8-BIT TIMER CLOCK INPUT
 TMRI : 8-BIT TIMER COUNTER RESET INPUT
 WAIT : WAIT
 XRAL : CONNECTED TO CRYSTAL OSCILLATOR.

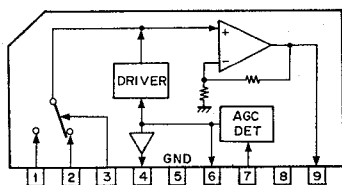
OUTPUT
 A0 - A19 : ADDRESS BUS
 AS : ADDRESS STROBE
 BACK : BUS REQUEST ACKNOWLEDGE
 DS : DATA STROBE
 E : ENABLE CLOCK
 FTOA1 - FTOA3 : FRT OUTPUT COMPARE A OUTPUT (CHANNEL 1 TO 3)
 FTOB1 - FTOB3 : FRT OUTPUT COMPARE B OUTPUT (CHANNEL 1 TO 3)
 PW1 - PW3 : PWM TIMER OUTPUT (CHANNEL 1 TO 3)
 R/W : READ/WRITE
 RD : READ
 TMO : 8-BIT TIMER OUTPUT
 TXD : SEND DATA
 WR : WRITE
 φ : SYSTEM CLOCK

INPUT/OUTPUT
 D0 - D7 : DATA BUS
 P10 - P17 : PORT 1
 P20 - P24 : PORT 2
 P30 - P37 : PORT 3
 P40 - P47 : PORT 4
 P50 - P57 : PORT 5
 P60 - P63 : PORT 6
 P70 - P77 : PORT 7
 P80 - P87 : PORT 8
 SCK : SERIAL CLOCK INPUT/OUTPUT

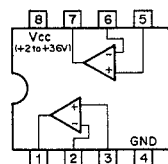


LA7205 (SANYO)

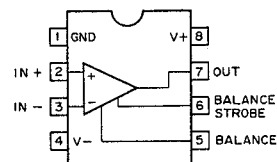
AGC AMP, INPUT SELECT, AGC DET. COMPARATOR
- SIDE VIEW -



LM2903DQ (RAYTHEON)
LM2903M (RAYTHEON) FLAT PACKAGE
LM2903P (TI)
LM2903PS (TI) FLAT PACKAGE
UPC393G2 (NEC) FLAT PACKAGE
DUAL VOLTAGE COMPARATORS
- TOP VIEW -

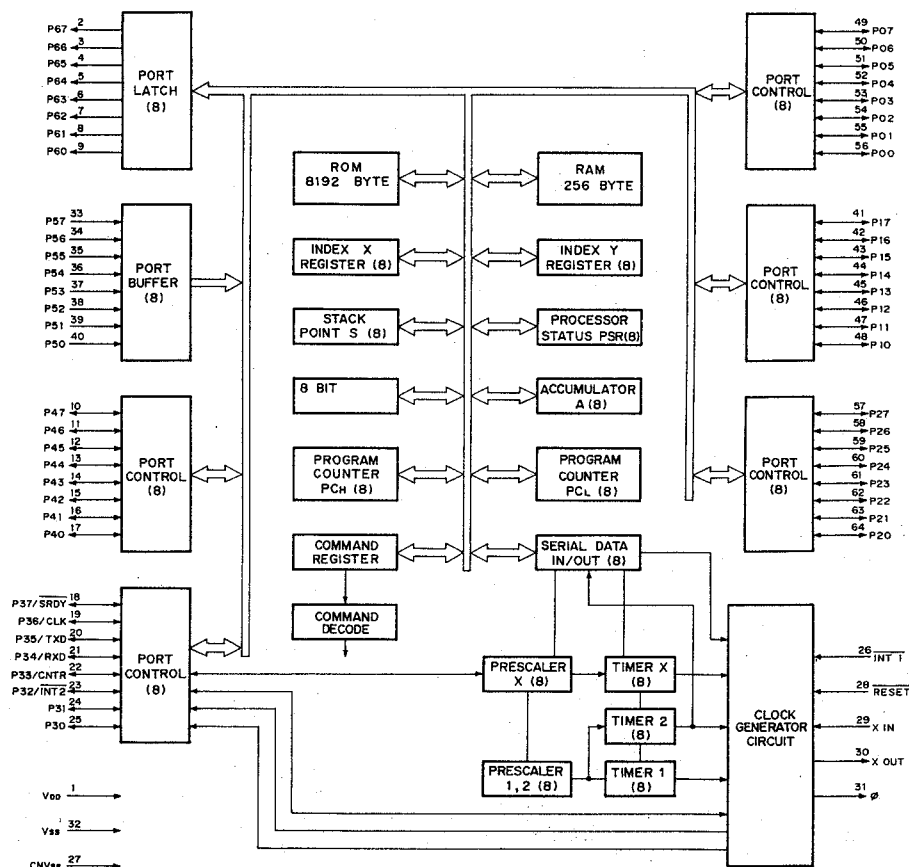
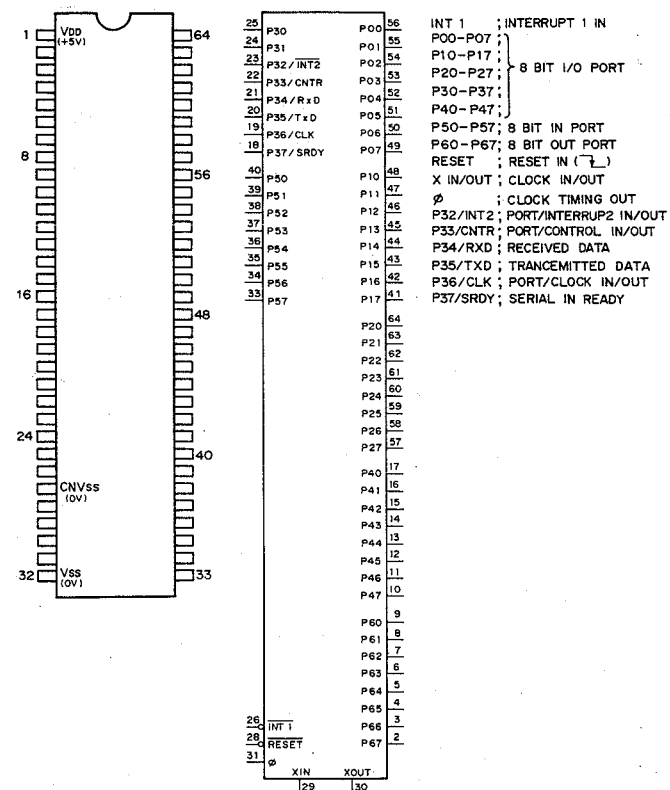


LM311PS (TI) FLAT PACKAGE
VOLTAGE COMPARATOR WITH STROBE
- TOP VIEW -

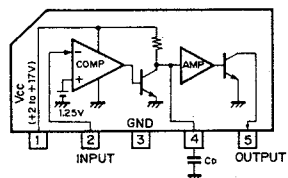


M50747H-XXXSP

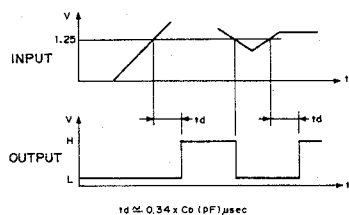
C-MOS PROCESS 8-BIT ONE CHIP MICROCOMPUTER
- TOP VIEW -



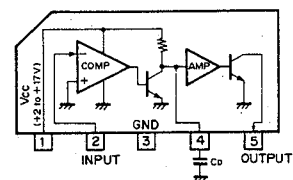
M51957BL (MITSUBISHI)
VOLTAGE DETECT DELAY
- PRINTED SIDE VIEW -



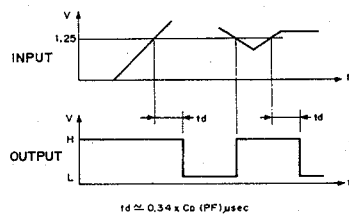
TIMING CHART



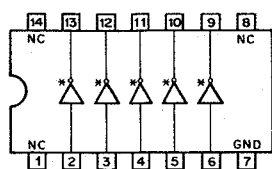
M51958BL (MITSUBISHI)
VOLTAGE DETECT DELAY
- PRINTED SIDE VIEW -



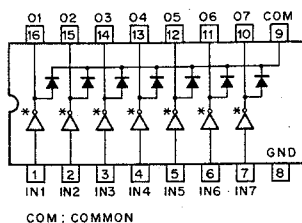
TIMING CHART



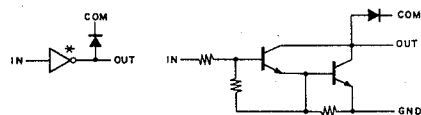
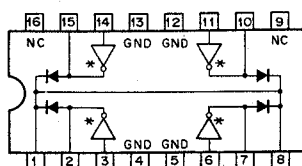
M54516P (MITSUBISHI)
INVERTER WITH OPEN-COLLECTOR
(DARLINGTON-CONNECTED TRANSISTOR ARRAY)
- TOP VIEW -



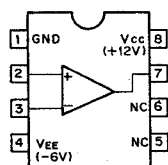
M54523P (MITSUBISHI)
BIPOLAR TRANSISTOR ARRAY WITH OPEN COLLECTOR
- TOP VIEW -



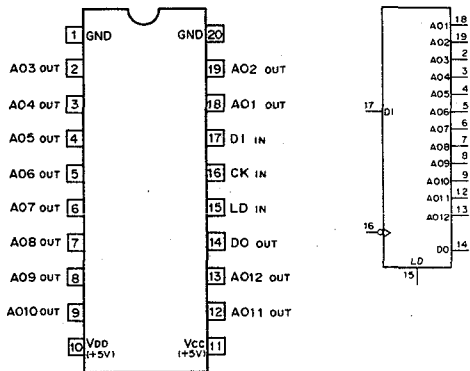
M54532P (MITSUBISHI)
DARLINGTON TRANSISTOR ARRAY WITH CLAMP DIODE
- TOP VIEW -



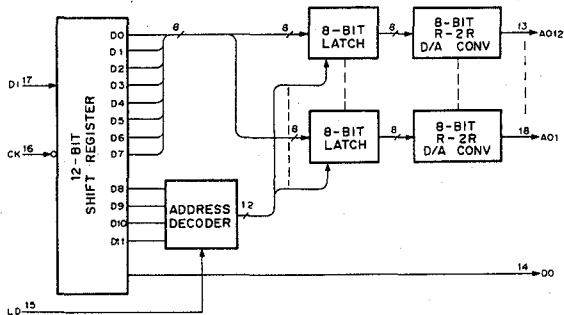
MB4002PF (FUJITSU) FLAT PACKAGE
HIGH SPEED VOLTAGE COMPARATOR
- TOP VIEW -



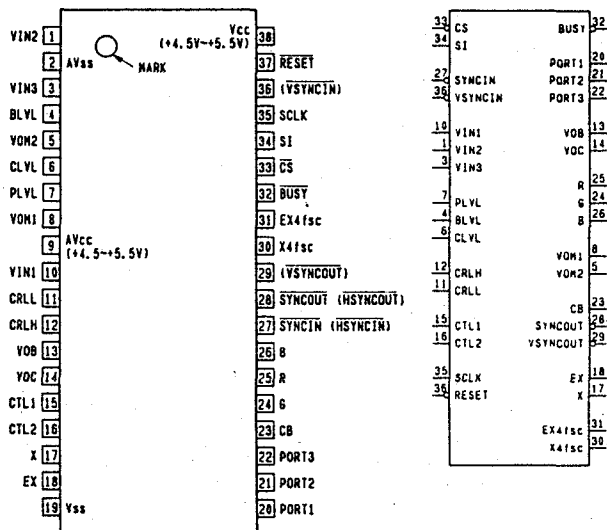
MB88341PFV (FUJITSU) FLAT PACKAGE
C-MOS 8-BIT D/A CONVERTER
- TOP VIEW -



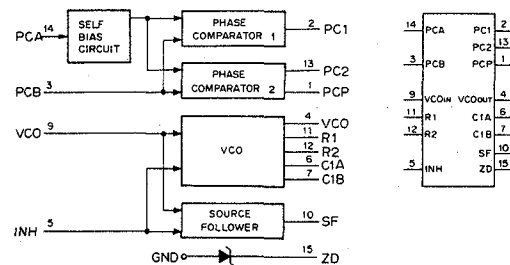
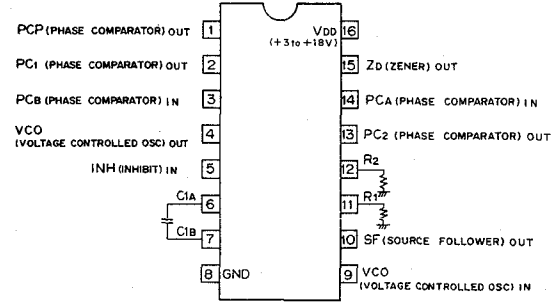
AO1 - AO12 : 8-BIT D/A OUTPUTS
CK : CLOCK INPUT
D1 : SERIAL DATA INPUT
DO : DATA OUTPUT
LD : DATA LOAD CONTROL INPUT (H: LOAD)



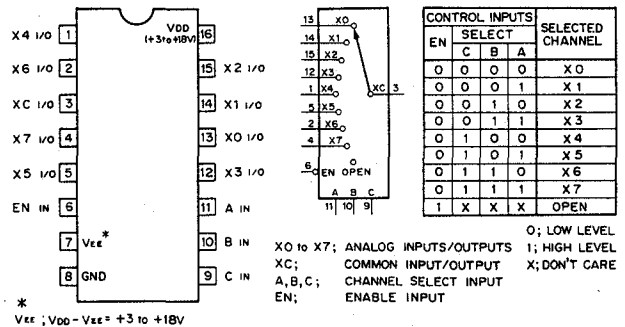
MB90061-111 (FUJITSU)
C-MOS TV DISPLAY CONTROLLER
- TOP VIEW -



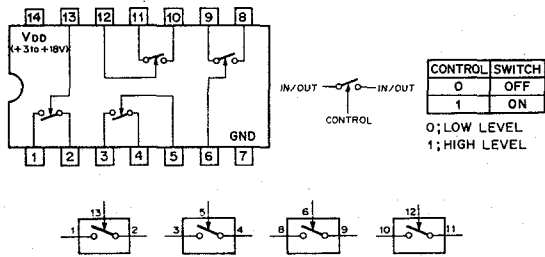
MC14046BF (MOTOROLA) FLAT PACKAGE
C-MOS PHASE LOCKED LOOP
- TOP VIEW -



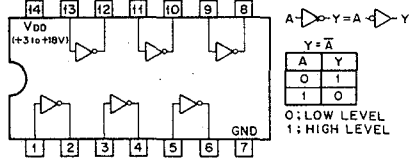
MC14051BF (MOTOROLA) FLAT PACKAGE
C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULPLEXER
- TOP VIEW -



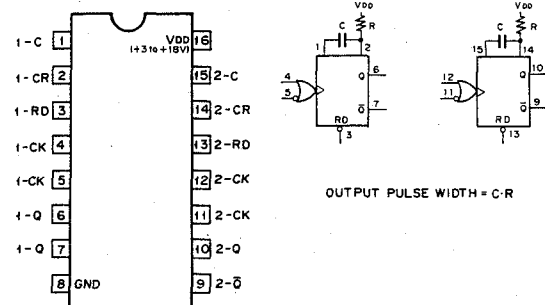
MC14066BF (MOTOROLA) FLAT PACKAGE
C-MOS BILATERAL ANALOG SWITCH
- TOP VIEW -



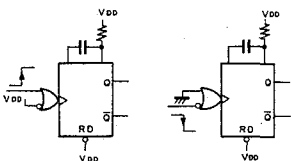
MC14069UBF (MOTOROLA)
TC4069UBP (TOSHIBA)
C-MOS INVERTER
- TOP VIEW -



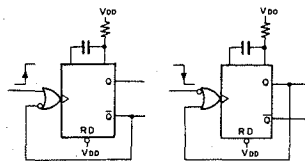
MC14538BF (MOTOROLA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -



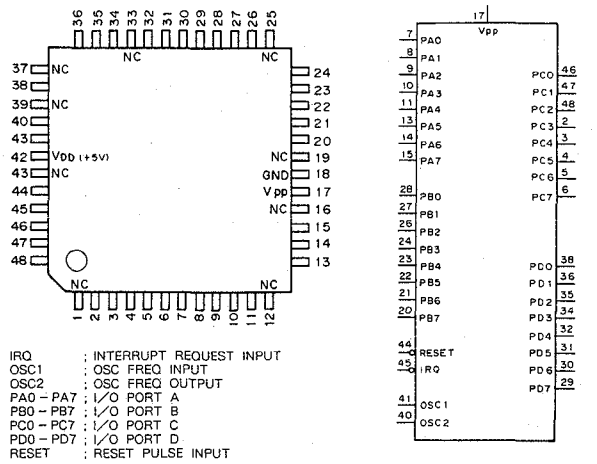
RETRIGGERABLE M.M.V



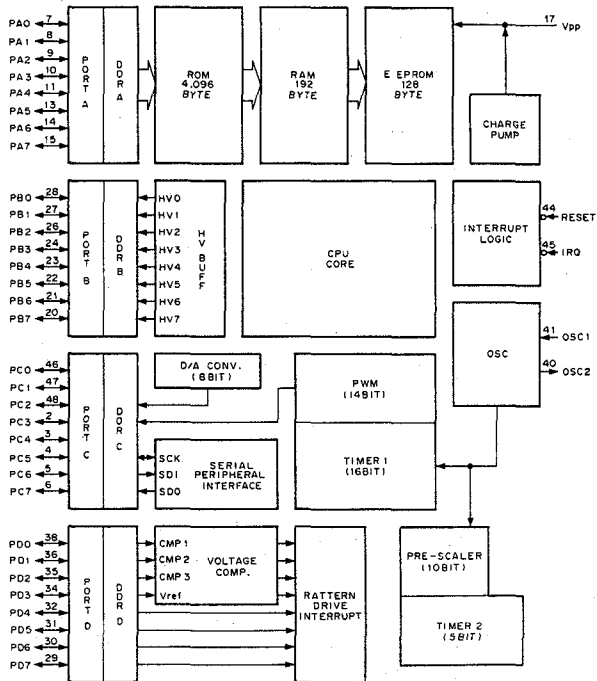
NON-RETRIGGERABLE M.M.V



MC68HC05N4 (MOTOROLA)
C-MOS 8-BIT MICROPROCESSOR
- TOP VIEW -

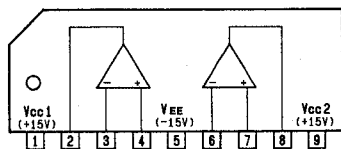


PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	-	NC	13	I/O	PA5	25	-	NC	37	-	NC
2	I/O	PC3	14	I/O	PA6	26	I/O	PB2	38	I/O	PD0
3	I/O	PC4	15	I/O	PA7	27	I/O	PB1	39	-	NC
4	I/O	PC5	16	-	NC	28	I/O	PB0	40	O	OSC2
5	I/O	PC6	17	I	VPP	29	I/O	PD7	41	I	OSC1
6	I/O	PC7	18	-	GND	30	I/O	PD6	42	-	VDD (+5V)
7	I/O	PA0	19	-	NC	31	I/O	PD5	43	-	NC
8	I/O	PA1	20	I/O	PB7	32	I/O	PD4	44	I	RESET
9	I/O	PA2	21	I/O	PB6	33	-	NC	45	I	IRQ
10	I/O	PA3	22	I/O	PB5	34	I/O	PD3	46	I/O	PC0
11	I/O	PA4	23	I/O	PB4	35	I/O	PD2	47	I/O	PC1
12	-	NC	24	I/O	PB3	36	I/O	PD1	48	I/O	PC2



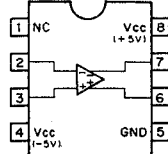
NJM2068SD (JRC)

LOW NOISE OPERATIONAL AMPLIFIER
- SIDE VIEW -



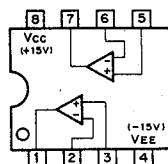
NJM360M (JRC) FLAT PACKAGE

HIGH SPEED VOLTAGE COMPARATOR
(TTL OUTPUT)
- TOP VIEW -



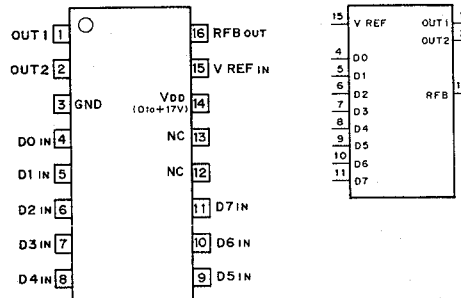
NJM4565M-A (JRC) FLAT PACKAGE
RC4558DD (RAYTHEON)
RC4558M (RAYTHEON) FLAT PACKAGE
RC4560D (RAYTHEON)
RC4560M (RAYTHEON) FLAT PACKAGE
RC5532DD (RAYTHEON)
UPC4558C (NEC)

DUAL OPERATIONAL AMPLIFIER
- TOP VIEW -

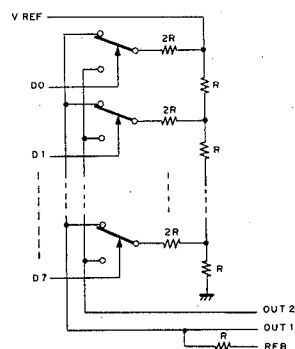


NJU8001M (JRC) FLAT PACKAGE

C-MOS 8-BIT MULTIPLYING D/A CONVERTER
- TOP VIEW -

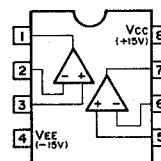


D0 - D7 : DATA INPUTS
RFB : FEED BACK INPUT

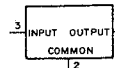
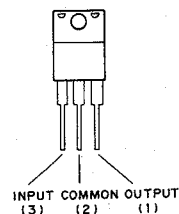


RC4556MA (RAYTHEON) FLAT PACKAGE

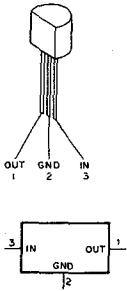
OPERATIONAL AMPLIFIER
(WIDE BAND, DECOMPENSATED)
- TOP VIEW -



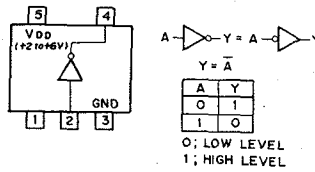
RC7805FA (RAYTHEON) + 5V
RC7809FA (RAYTHEON) + 9V
POSITIVE VOLTAGE REGULATOR
- FRONT VIEW -



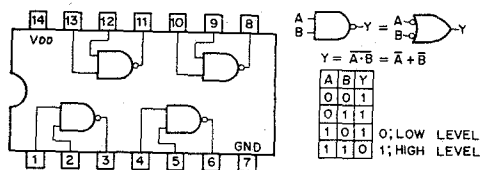
RC78L05A (RAYTHEON) + 5V
 RC78L09A (RAYTHEON) + 9V
 RC7812FA (RAYTHEON) + 12V
 POSITIVE VOLTAGE REGULATOR
 - FRONT VIEW -



TC7504F (MOTOROLA) FLAT PACKAGE
 C-MOS INVERTER
 - TOP VIEW -



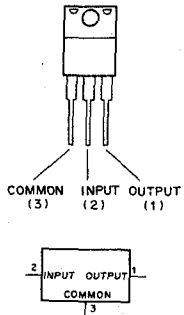
SN74HC00ANS (TI) FLAT PACKAGE
 C-MOS QUAD 2-INPUT NAND GATE
 - TOP VIEW -



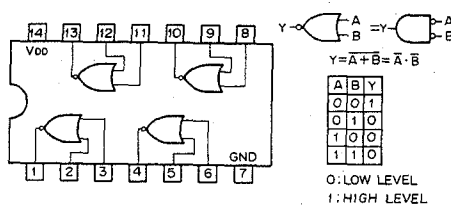
NOTE:

TYPE	V _{DD}
TC74AC00P	+2 to +5.5V
TC74AC00F	
MC74HCT00N	+5V
74ACT00PC	+2 to +6V
OTHER TYPES	

RC7905FA (RAYTHEON) - 5V
 RC7909FA (RAYTHEON) - 9V
 NEGATIVE VOLTAGE REGULATOR
 - FRONT VIEW -



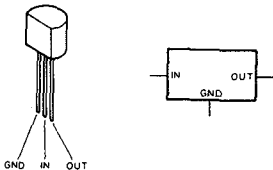
SN74HC02ANS (TI) FLAT PACKAGE
 C-MOS QUAD 2-INPUT NOR GATE
 - TOP VIEW -



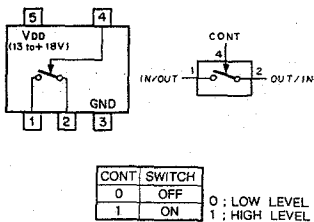
NOTE:

TYPE	V _{DD}
TC74AC02F	+2 to +5.5V
OTHER TYPES	

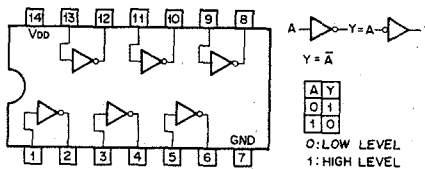
RC79L05A (RAYTHEON) - 5V
 NEGATIVE VOLTAGE REGULATOR (100mA)



SC14S66F (MOTOROLA) FLAT PACKAGE
 C-MOS BILATERAL ANALOG SWITCH
 - TOP VIEW -



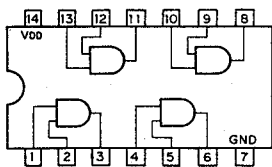
SN74HC04ANS (TI) FLAT PACKAGE
 SN74HCU04ANS (TI) FLAT PACKAGE
 C-MOS HEX INVERTER
 - TOP VIEW -



NOTE:

TYPE	V _{DD}
74ACT04 TYPES	+5V
74HCT04 TYPES	
TC74AC04F	+2 to +5.5V
TC74ACT04F	
OTHER TYPES	+2 to +6V

SN74HC08ANS (TI) FLAT PACKAGE
C-MOS QUAD 2-INPUT AND GATE
- TOP VIEW -



NOTE:

TYPE	V _{DD}
TC74AC08F	+2 to +5.5V
OTHER TYPES	+2 to +6V

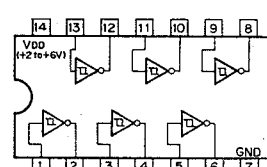
$$A \text{ --- } B \text{ --- } Y = A \cdot B$$

$$Y = A \cdot B = \overline{A + B}$$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0: LOW LEVEL
1: HIGH LEVEL

SN74HC14ANS (TI) FLAT PACKAGE
C-MOS SCHMITT TRIGGER INVERTER
- TOP VIEW -



NOTE:

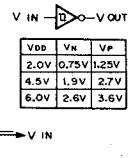
TYPE	V _{DD}
74AC/74HC	+2 to +6V
TC74AC14	+2 to +5.5V

$$A \text{ --- } Y = \overline{A}$$

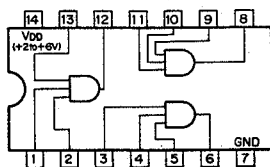
$$Y = \overline{A}$$

A	Y
0	1
1	0

0: LOW LEVEL
1: HIGH LEVEL



SN74HC11ANS (TI) FLAT PACKAGE
C-MOS 3-INPUT POSITIVE-AND GATE
- TOP VIEW -



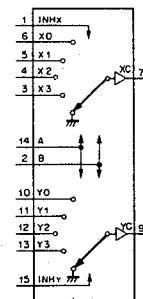
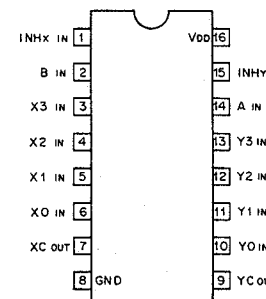
$$A \text{ --- } B \text{ --- } C \text{ --- } Y = A \cdot B \cdot C$$

$$Y = A \cdot B \cdot C = \overline{A + B + C}$$

A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

0: LOW LEVEL
1: HIGH LEVEL

SN74HC153ANS (TI) FLAT PACKAGE
C-MOS DUAL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -

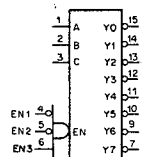
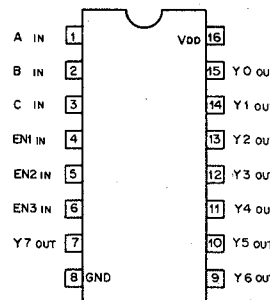


TYPE	V _{DD}
EXCEPT FOL TYPE	+2 to +6V
74ACT153PC	+5V
74ACT153SJ	+2 to +5.5V
TC74AC153P	+2 to +5.5V

CONTROL IN	ON CHANNEL
INH B A	
0 0 0	0
0 0 1	1
0 1 0	2
0 1 1	3
1 X X	GND

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

SN74HC138ANS (TI) FLAT PACKAGE
C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
- TOP VIEW -



INPUTS				OUTPUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	X	X	X	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	1	0	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

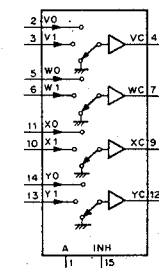
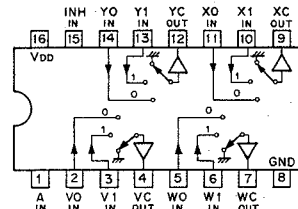
EN = EN1 · EN2 · EN3

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

NOTE:

TYPE	V _{DD}
74AC/74HC	+2 to +6V
74ACT/74HCT	+5V
TC74AC138	+2 to +5.5V

SN74HC157ANS (TI) FLAT PACKAGE
C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -



NOTE:

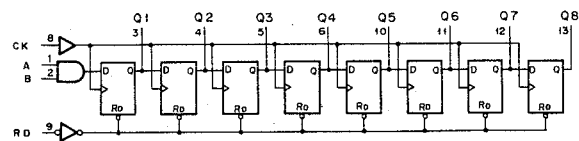
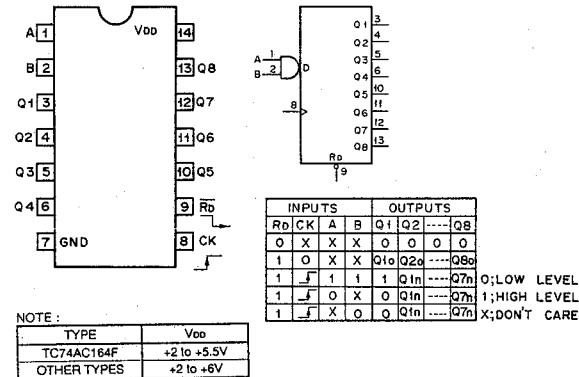
TYPE	V _{DD}
74ACT157	+5V
TC74AC157P	+2 to +5.5V
TC74AC157F	+2 to +6V
OTHER TYPES	+2 to +6V

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

CONT. IN	ON CHANNEL
INH A	
0 0	0
0 1	1
1 X	GND

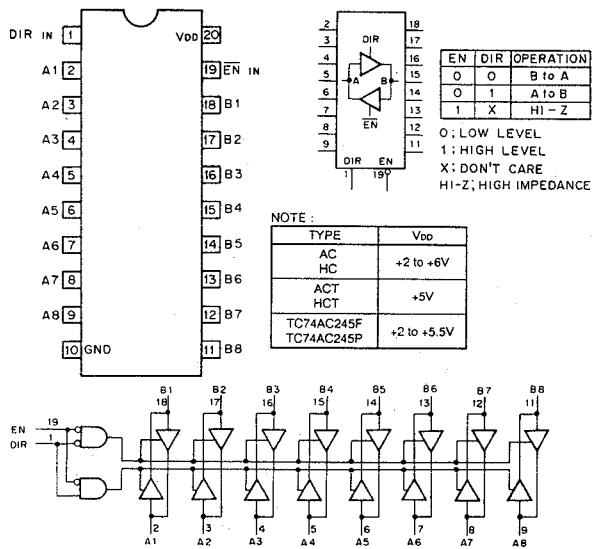
SN74HC164ANS (TI) FLAT PACKAGE

C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER
- TOP VIEW -



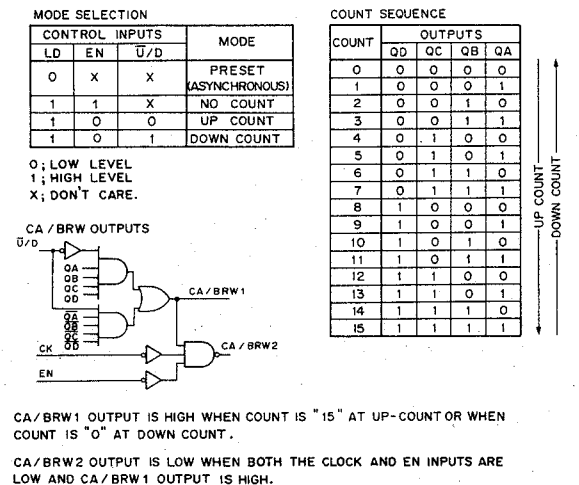
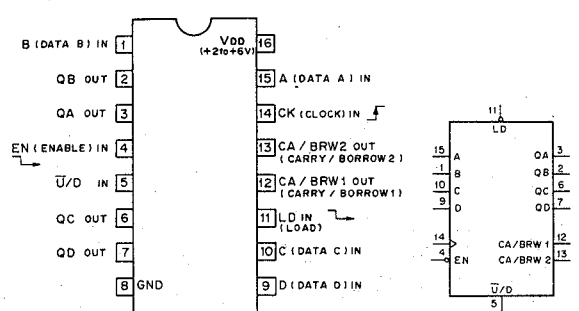
SN74HC245ANS (TI) FLAT PACKAGE

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -



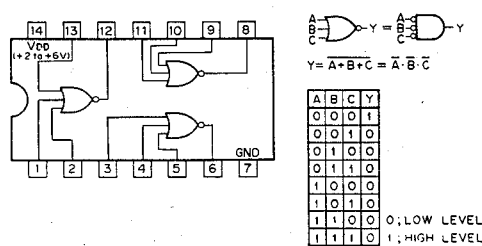
SN74HC191NS (TI) FLAT PACKAGE

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER
- TOP VIEW -



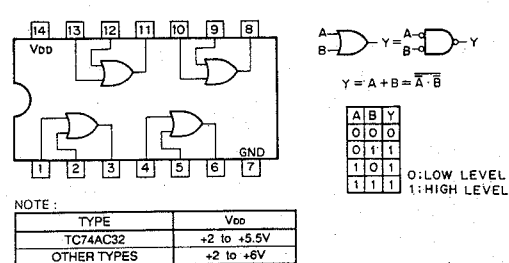
SN74HC27ANS (TI) FLAT PACKAGE

C-MOS 3-LINE POSITIVE-NOR GATE
- TOP VIEW -

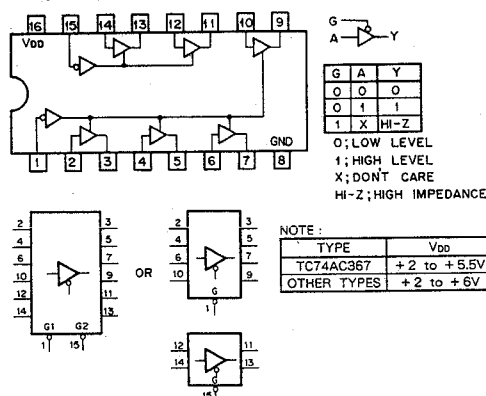


SN74HC32ANS (TI) FLAT PACKAGE

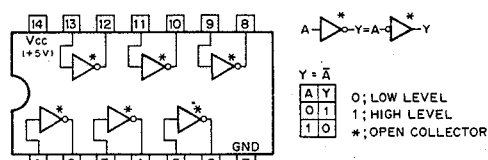
C-MOS 2-INPUT OR GATE
- TOP VIEW -



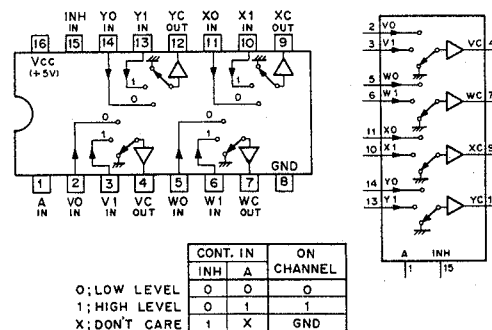
SN74HC367ANS (TI) FLAT PACKAGE

C-MOS BUS DRIVER WITH 3-STATE OUTPUTS
- TOP VIEW -

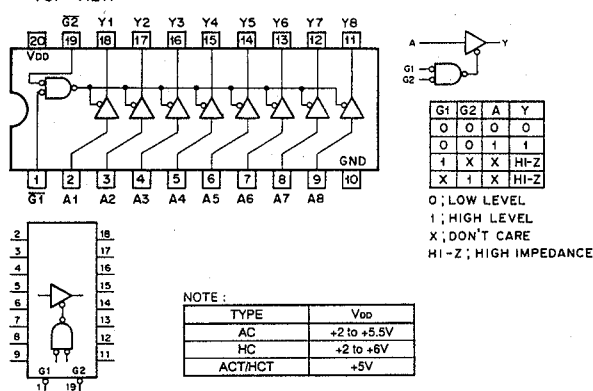
SN74LS06NS (TI) FLAT PACKAGE

TTL INVERTER BUFFER/DRIVER WITH OPEN-COLLECTOR
- TOP VIEW -

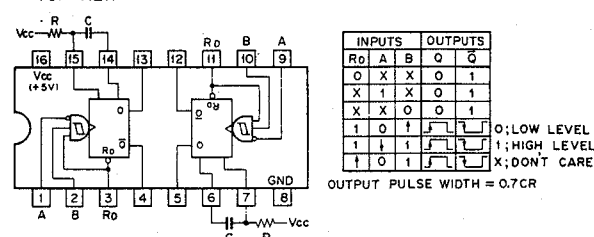
SN74LS157NS (TI) FLAT PACKAGE

TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -

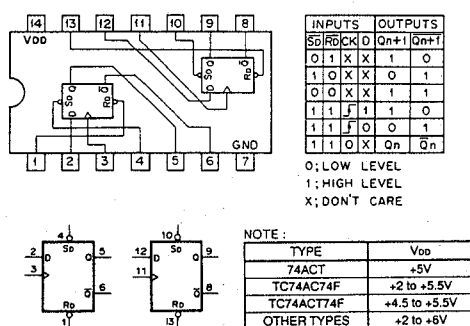
SN74HC541ANS (TI) FLAT PACKAGE

C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -

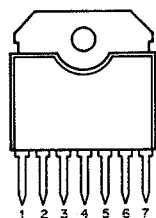
SN74LS221NS (TI) FLAT PACKAGE

TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
- TOP VIEW -

SN74HC74ANS (TI) FLAT PACKAGE

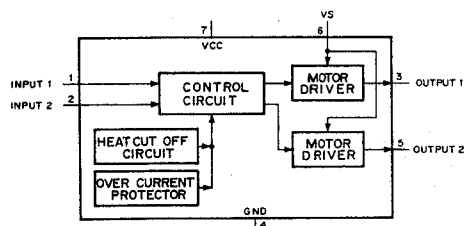
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
- TOP VIEW -

DC MOTOR DRIVER
- PRINTED SIDE VIEW -

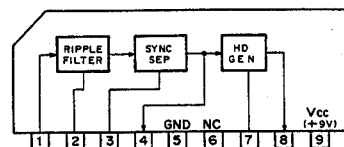


INPUTS		OUTPUTS		MODE
1	2	1	2	
1	1	0	0	BRAKE
0	1	0	1	ROTATION / REV. ROTATION
1	0	1	0	REV. ROTATION / ROTATION
0	0	HI-Z		STOP

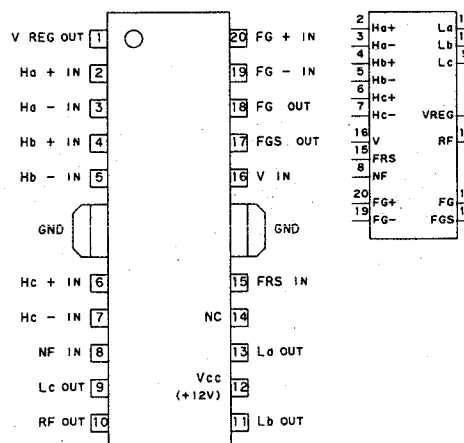
0 ; LOW LEVEL
1 ; HIGH LEVEL
HI-Z : HIGH IMPEDANCE



SYNC SEPARATOR/H.D PULSE GENERATOR
- SIDE VIEW -



MOTOR DRIVER FOR DIRECT CURRENT COMPACT MOTOR
- TOP VIEW -

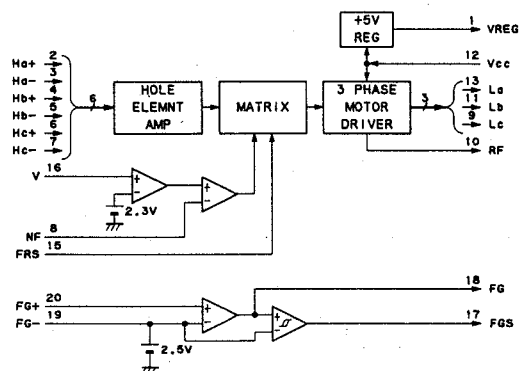


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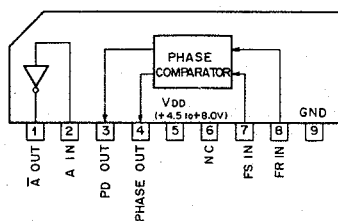
INPUT
FG +/-      ;FG INPUT AMP
FRS         ;MOTOR ROTATIONAL DIRECTION CONTROL
Ha,Hb,Hc +/-;HOLE ELEMENT AMP
NF          ;FEEDBACK OUTPUT CURRENT
V           ;CONTROL VOLTAGE

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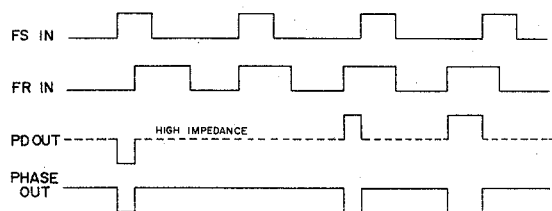
OUTPUT	
FG	1FG GAIN AMP
FGS	1FG HYSTERESIS AMP
Ld.Lb.Lc	13 PHASE MOTOR DRIVE
RF	1OUTPUT CURRENT DETECTOR
V REG	1VOLTAGE REGULATOR



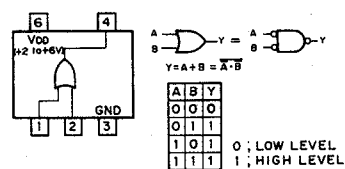
TC5081AP (TOSHIBA)

C-MOS PHASE COMPARATOR
- SIDE VIEW -

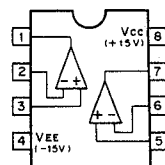
PHASE COMPARATOR TIMING CHART



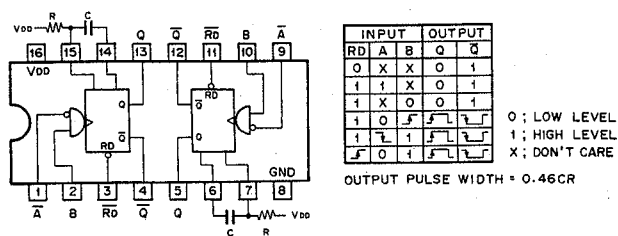
TC7S32F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT OR GATE
- TOP VIEW -

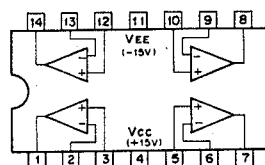
TL082CPS (TI) FLAT PACKAGE

OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -

TC74HC123F (TOSHIBA) FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS
- TOP VIEW -

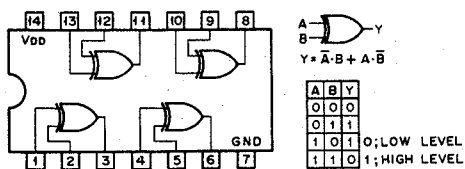
TL084CNS (TI) FLAT PACKAGE

OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -

NOTE:

TYPE	V _{DD}
TC74HCT123AF	+5V
OTHER TYPES	+2 to +6V

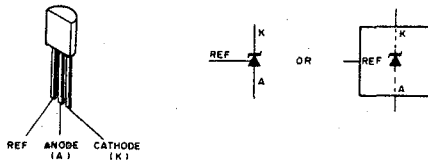
TC74HC86AF (TOSHIBA) FLAT PACKAGE

C-MOS QUAD EXCLUSIVE OR GATES
- TOP VIEW -

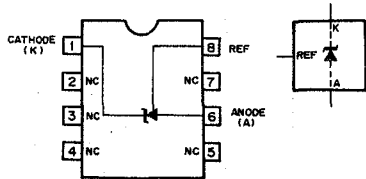
NOTE:

TYPE	V _{DD}
TC74AC86 TYPE	+2 to +5.5V
OTHER TYPES	+2 to +6V

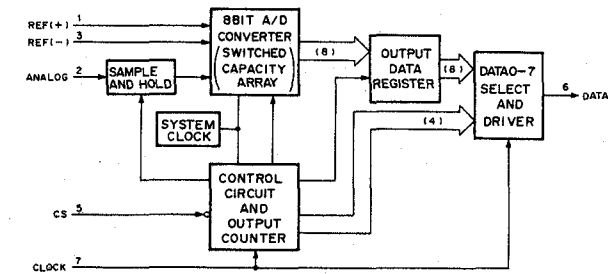
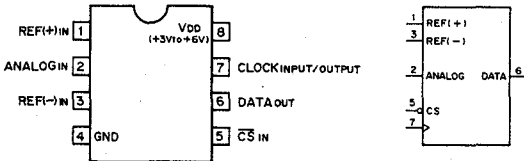
TL431CLP (TI)
ADJUSTABLE PRECISION SHUNT REGULATOR



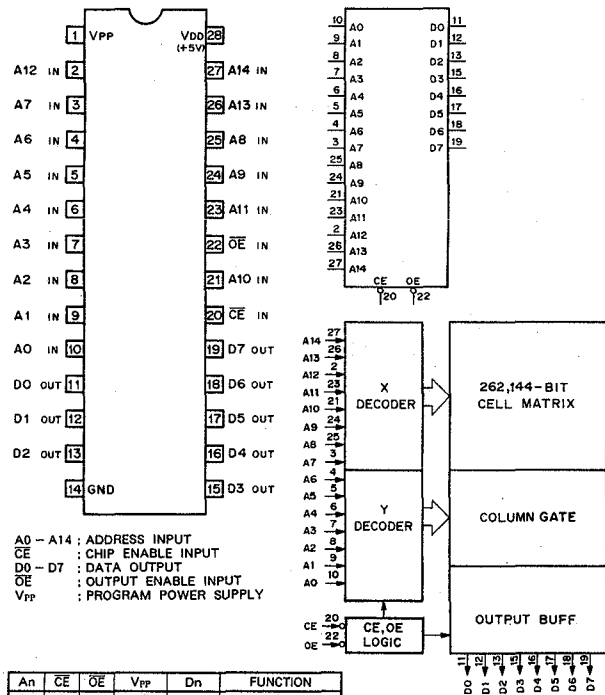
TL431CPS (TI) FLAT PACKAGE
ADJUSTABLE PRECISION SHUNT REGULATOR
- TOP VIEW -



TLCS49IPS (TI) FLAT PACKAGE
C-MOS 8 BIT A/D CONVERTER
- TOP VIEW -



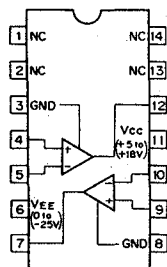
TMS27C256-20JL (TI)
C-MOS 256K (32Kx8)-BIT ERASABLE PROM WITH 3-STATE OUTPUTS
- TOP VIEW -



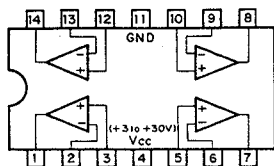
An	CE	OE	Vpp	Dn	FUNCTION
An 0	0	0	+5V	Dout	READ
An 0	1	0	+5V	Hi-Z	OUTPUT DISABLE
X	1	X	+5V	Hi-Z	STANDBY
An 0	1	1	+21V	Din	PGM
An 0	0	0	+21V	Dout	PGM VERIFY
X	1	1	+21V	Hi-Z	PGM INH

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

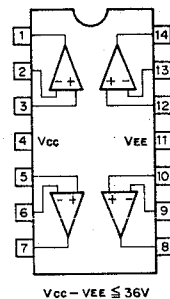
UPC319G2 (NEC) FLAT PACKAGE
DUAL VOLTAGE COMPARATOR
- TOP VIEW -



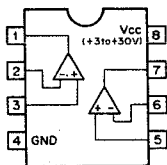
UPC324G2 (NEC) FLAT PACKAGE
QUAD. OP. AMPLIFIER
- TOP VIEW -



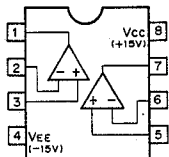
UPC4574G2 (NEC)
QUAD OPERATIONAL AMPLIFIER
- TOP VIEW -



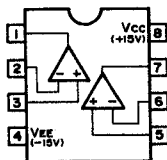
UPC358G2 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIERS
- TOP VIEW -



UPC4557C (NEC)
UPC4572C (NEC)
OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)
- TOP VIEW -

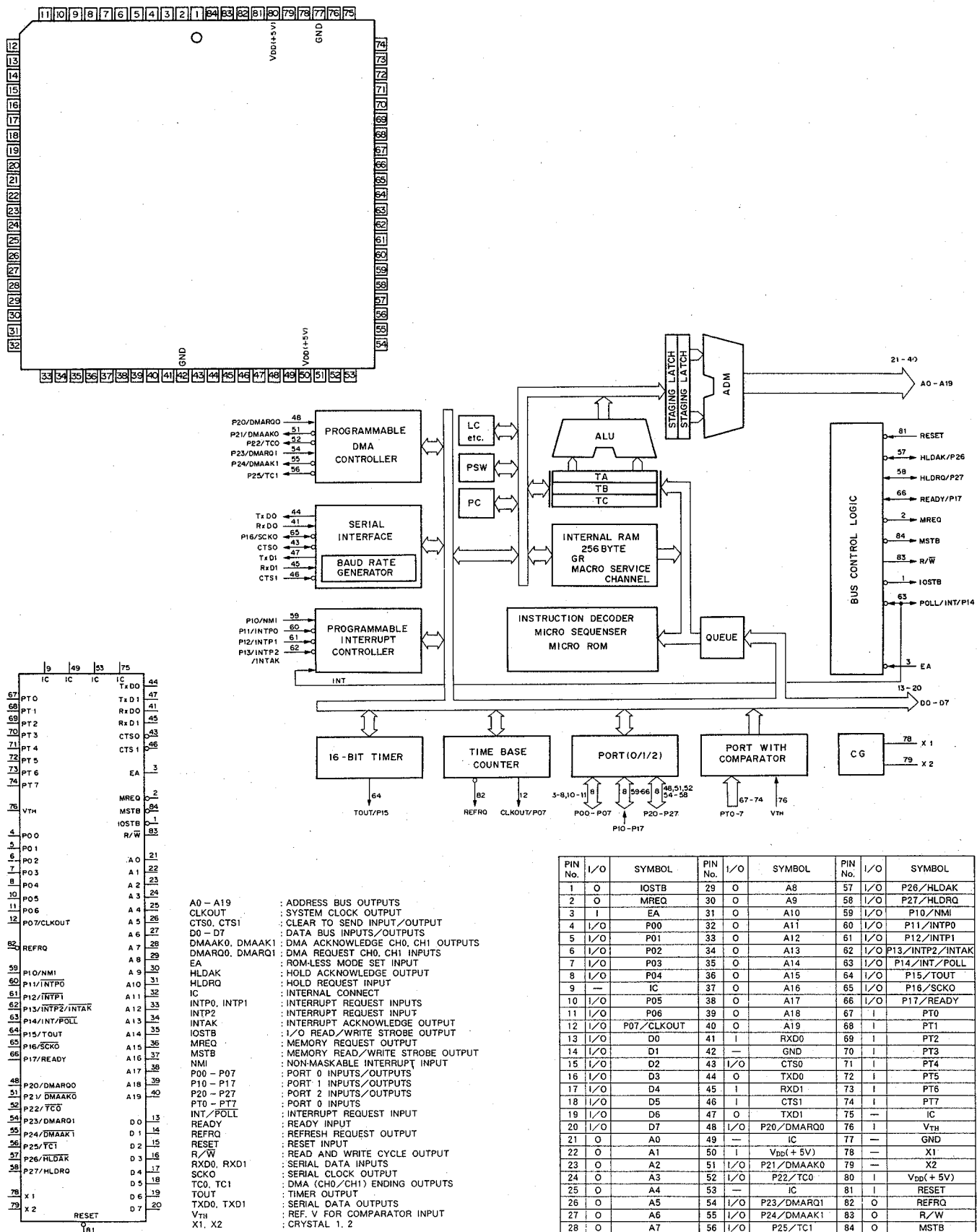


UPC4570G2 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



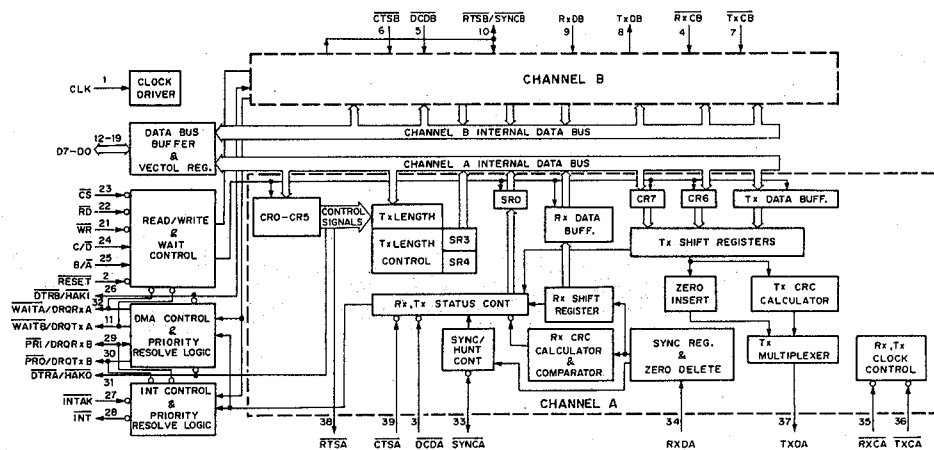
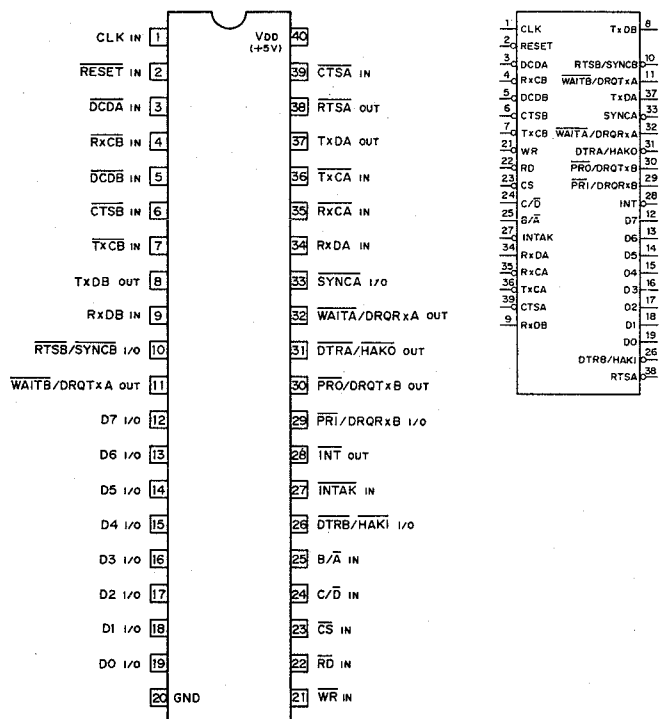
UPD70320L-8 (NEC)

C-MOS 16-BIT MICROPROCESSOR
- TOP VIEW -



UPD7201AC (NEC)

N-MOS MULTI-PROTOCOL SERIAL CONTROLLER
- TOP VIEW -

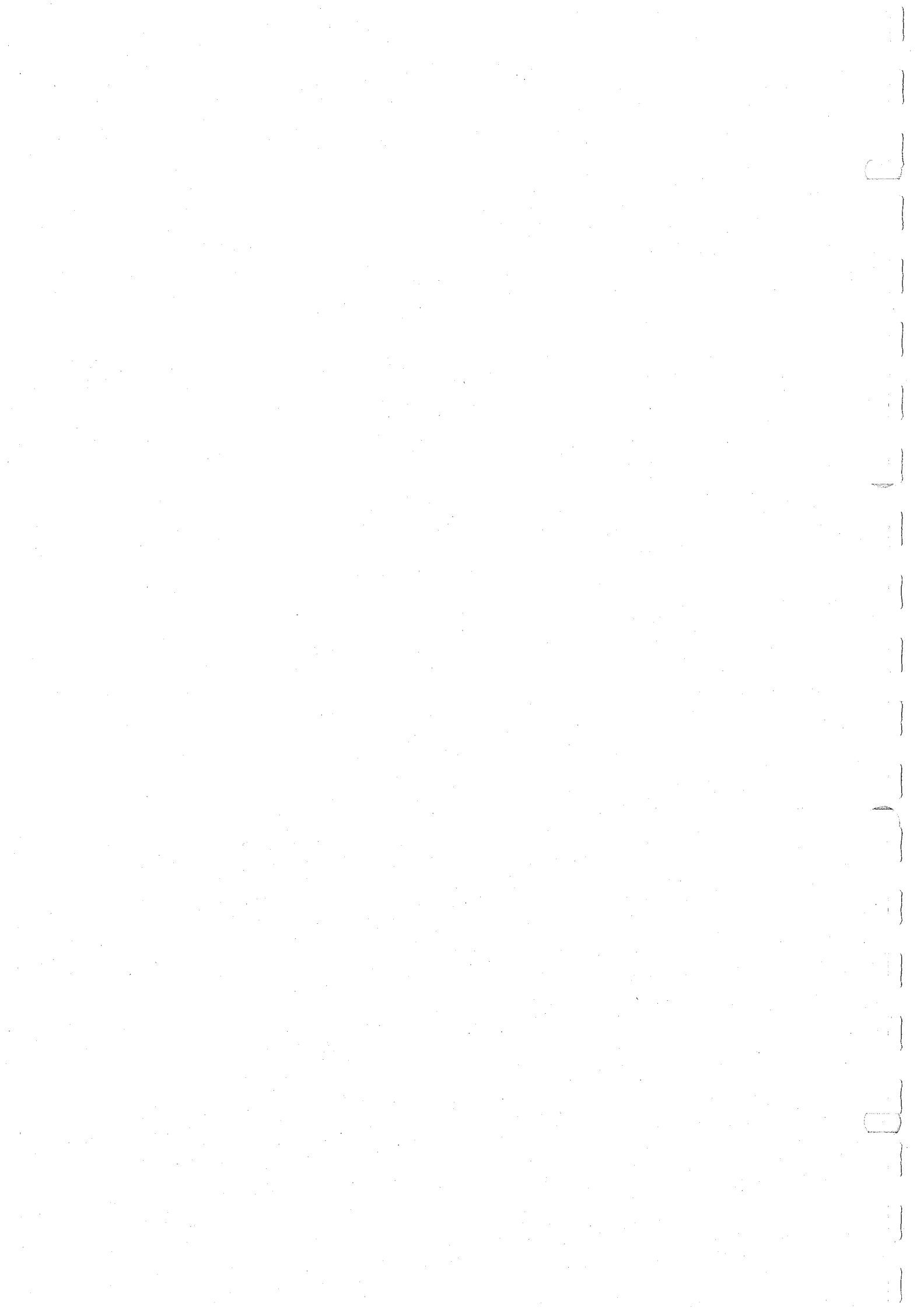


CLK; SYSTEM CLOCK
D7-D0; DATA BUS
CS; CHIP SELECT
WR; WRITE
RD; READ
C/D; CONTROL/DATA
B/A; CHANNEL B/CHANNEL A
INT; INTERRUPT REQUEST
INTAK; INTERRUPT ACKNOWLEDGE
PRI/DRQTXB; PRIORITY INPUT/DMA REQUEST RXB
PRO/DRQTXB; PRIORITY OUTPUT/DMA REQUEST TXB
WAITA/DRQTXA; WAIT A/DMA REQUEST RXA
WAITB/DRQTXA; WAIT B/DMA REQUEST TXA
DTRB/HAKI; DATA TERMINAL READY/HOLD ACKNOWLEDGE INPUT
DTRA/HAKO; DATA TERMINAL READY/HOLD ACKNOWLEDGE OUTPUT
RXDA, RXDB; RECEIVE DATA A/B
TXDA, TXDB; TRANSMIT DATA A/B
RXCA, RXCB; RECEIVE CLOCK A/B
TXCA, TXCB; TRANSMIT CLOCK A/B
SYNCA; SYNCHRONIZATION A
RTSB/SYNCB; REQUEST TO SEND B/SYNCHRONIZATION B

CHANNEL SELECTION

B/A	C/D	WR	RD	CS	FUNCTION
0	0	0	1	0	CHANNEL A WRITE (TXD)
1	0	0	1	0	CHANNEL B WRITE (TXD)
0	0	1	0	0	CHANNEL A READ (RXD)
1	0	1	0	0	CHANNEL B READ (RXD)
0	1	0	1	0	CHANNEL A WRITE (COMMAND/PARAMETER-REGISTER)
1	1	0	1	0	CHANNEL B WRITE (COMMAND/PARAMETER-REGISTER)
0	1	1	0	0	CHANNEL A READ (STATUS/VECTOR-REGISTER)
1	1	1	0	0	CHANNEL B READ (STATUS/VECTOR-REGISTER)

CTSA, CTSB; CLEAR TO SEND A/B
DCDA, DCDB; DATA CARRIER DETECT A/B
RTSA; REQUEST TO SEND A



SECTION 18

REPLACEABLE PARTS AND OPTIONAL FIXTURE

18-1. NOTES ON REPAIR PARTS

(1) Safety Related Components Warning

Components marked with Δ on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear in this manual or in service bulletin and service manual supplements published by Sony.

(2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".

This manual's exploded views and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present"

(3) Changes of Parts

Regarding engineering parts changes, refer to "Section 19. CHANGED PARTS".

(4) Stock of Parts

Parts marked with "o" SP(Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(5) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

Capacitors : μF

Inductors : μH

Resistors : Ω

(6) Tension Spring

($\times \times T$) after a tension spring is shown on the parts list in order to indicate the number of spring turns required for the use.

(Example) TENSION, SPRING(20 T):

This spring must be cut at its 20 th turn for actual use.

18-2. EXPLODED VIEW

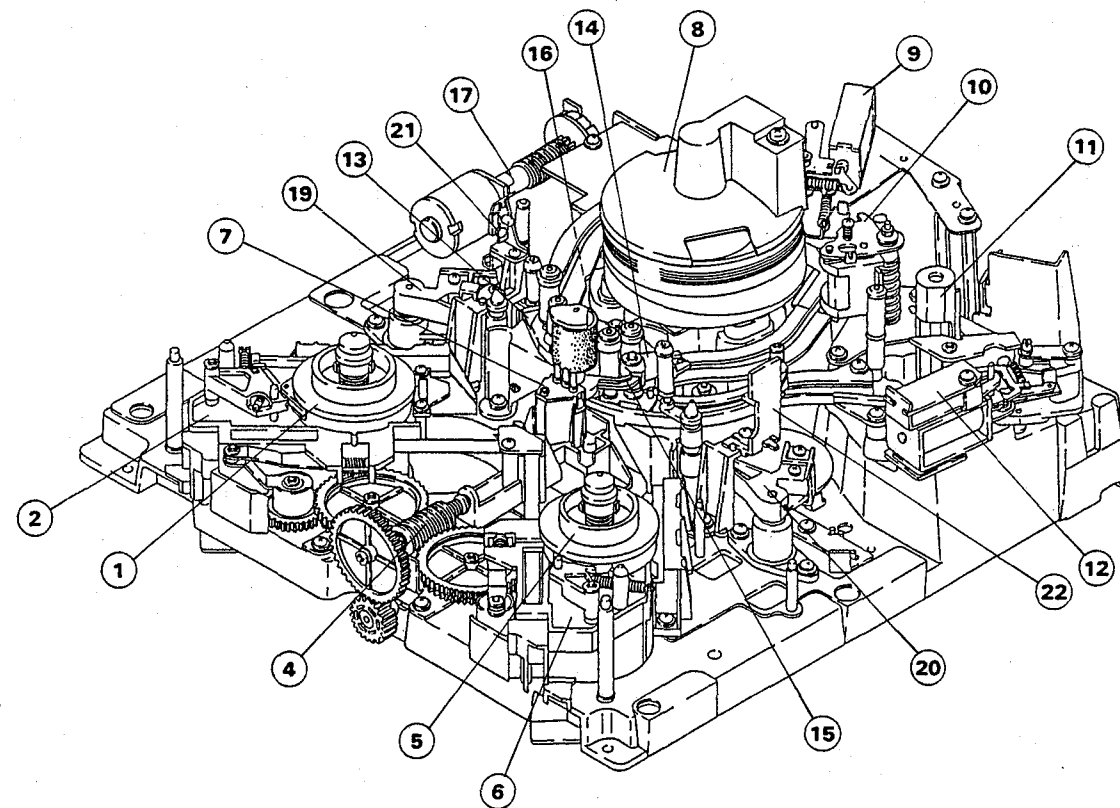
Index of Main Mechanical Parts / Components

Mark	Item	Title	Page
① ② ③ ④	S Reel Table RS Table (S) Block LS Motor Block LS Gear Block	REEL CHASSIS (1)	18-4
⑤ ⑥ ⑦	T Reel Table RS Table (T) Block Cassette Sensor	REEL CHASSIS (2)	18-7
⑧ ⑨	Head Drum Cleaning Roller Block	DRUM & CLEANING ROLLER ASSEMBLY	18-8
⑩ ⑪ ⑫	Audio/TC Head Capstan Motor Pinch Solenoid Block	HEAD & PINCH PRESS ASSEMBLY	18-11
⑬ ⑭ ⑮	S Slider T Slider P Slider	RAIL & SLIDER ASSEMBLY	18-12
⑯	Threading Ring	THREADING RING	18-15
⑰	Threading Gear Box	THREADING GEAR BOX ASSEMBLY	18-17
⑲ ⑳ ㉑ ㉒	S Tension Regulator T Tension Regulator Tape End Sensor Tape Beginning Sensor	TENSION REGULATOR ASSEMBLY	18-19
㉓	Printed Circuit Board	REEL CHASSIS (3)	18-21
㉔	Cassette Compartment	CASSETTE COMPARTMENT ASSEMBLY	18-23
㉕	Upper Lid Bottom Panel Cabinet (right) Cabinet (left)	CHASSIS & ORNAMENTAL PANEL BLOCK	18-24
㉖	Printed Circuit Boards	CARD RACK BLOCK	18-27
㉗	Front Panel Front Chassis Cassette Guide	FRONT PANEL BLOCK	18-29
㉘	Key Panel Search Dial	FUNCTION CONTROL PANEL BLOCK	18-31
㉙	Connector Panel	REAR PANEL BLOCK	18-32

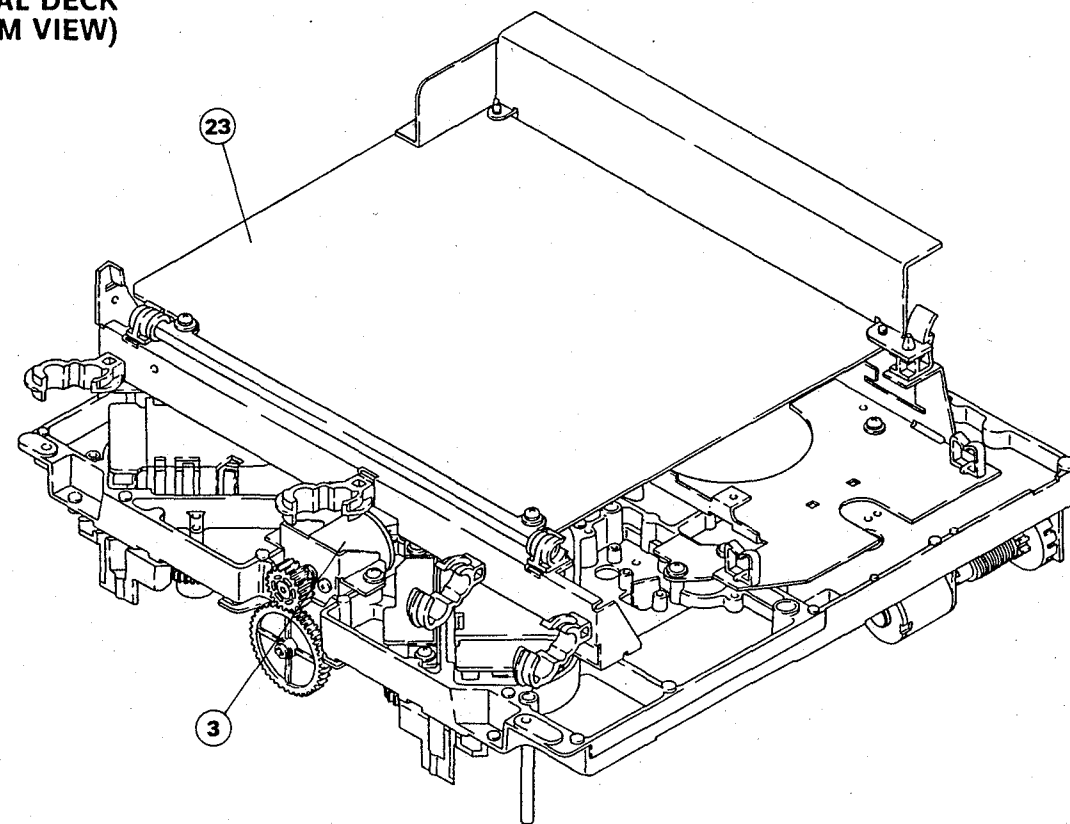
EXPLODED VIEW

EXPLODED VIEW

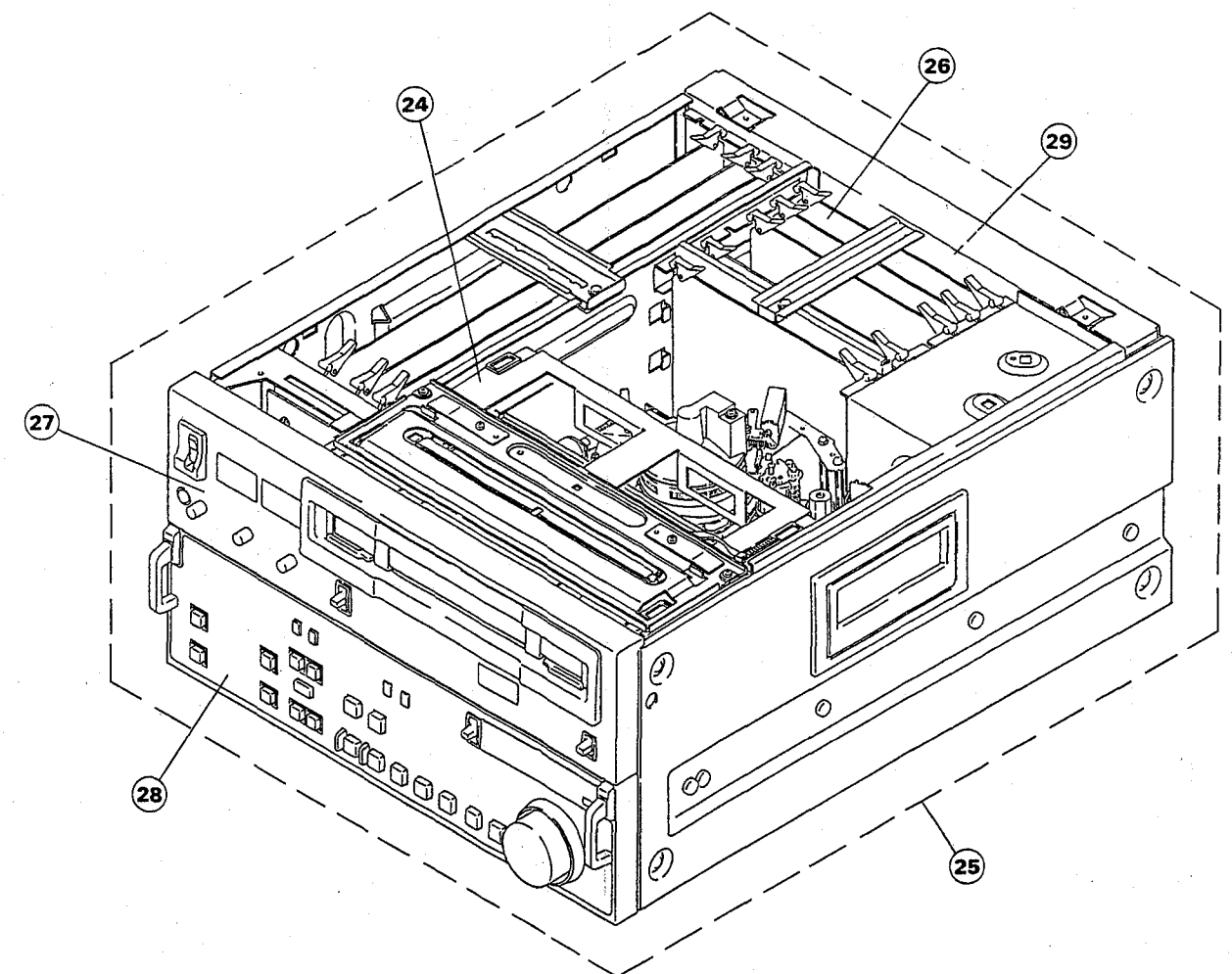
MECHANICAL DECK
(TOP VIEW)



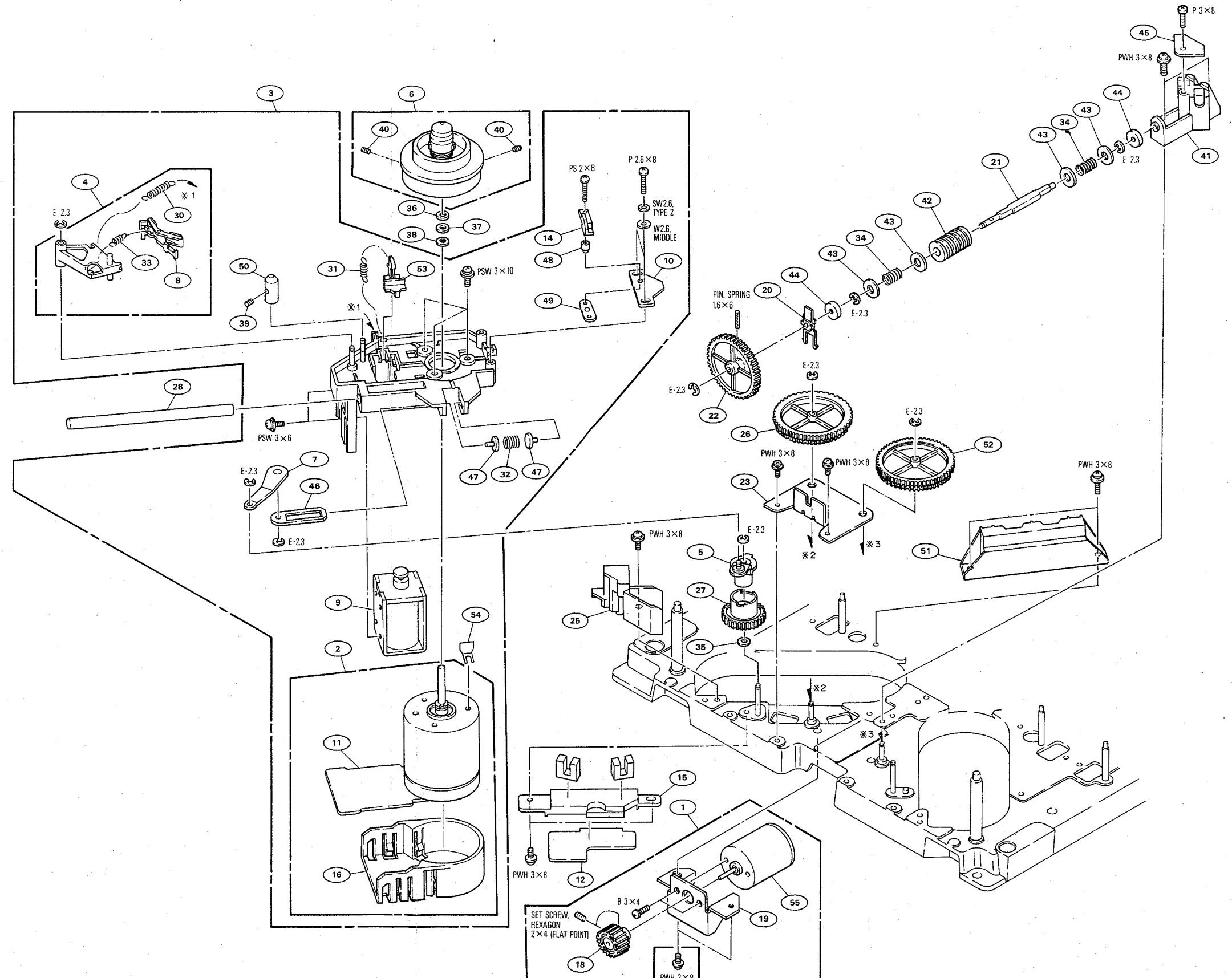
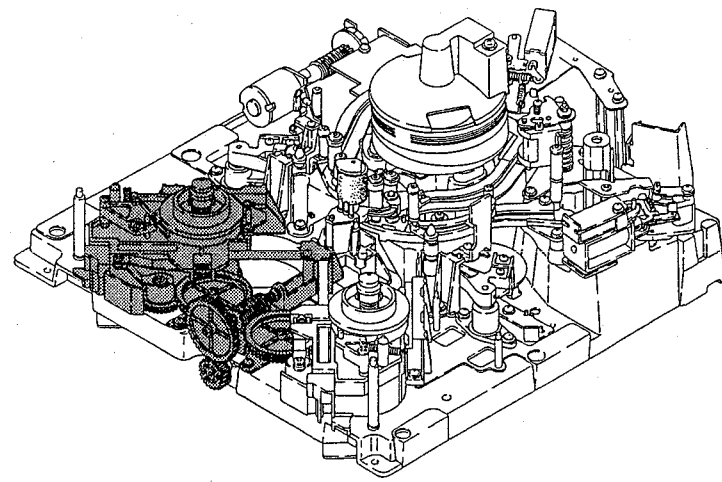
MECHANICAL DECK
(BOTTOM VIEW)



OVERALL BLOCK



Reel chassis (1)

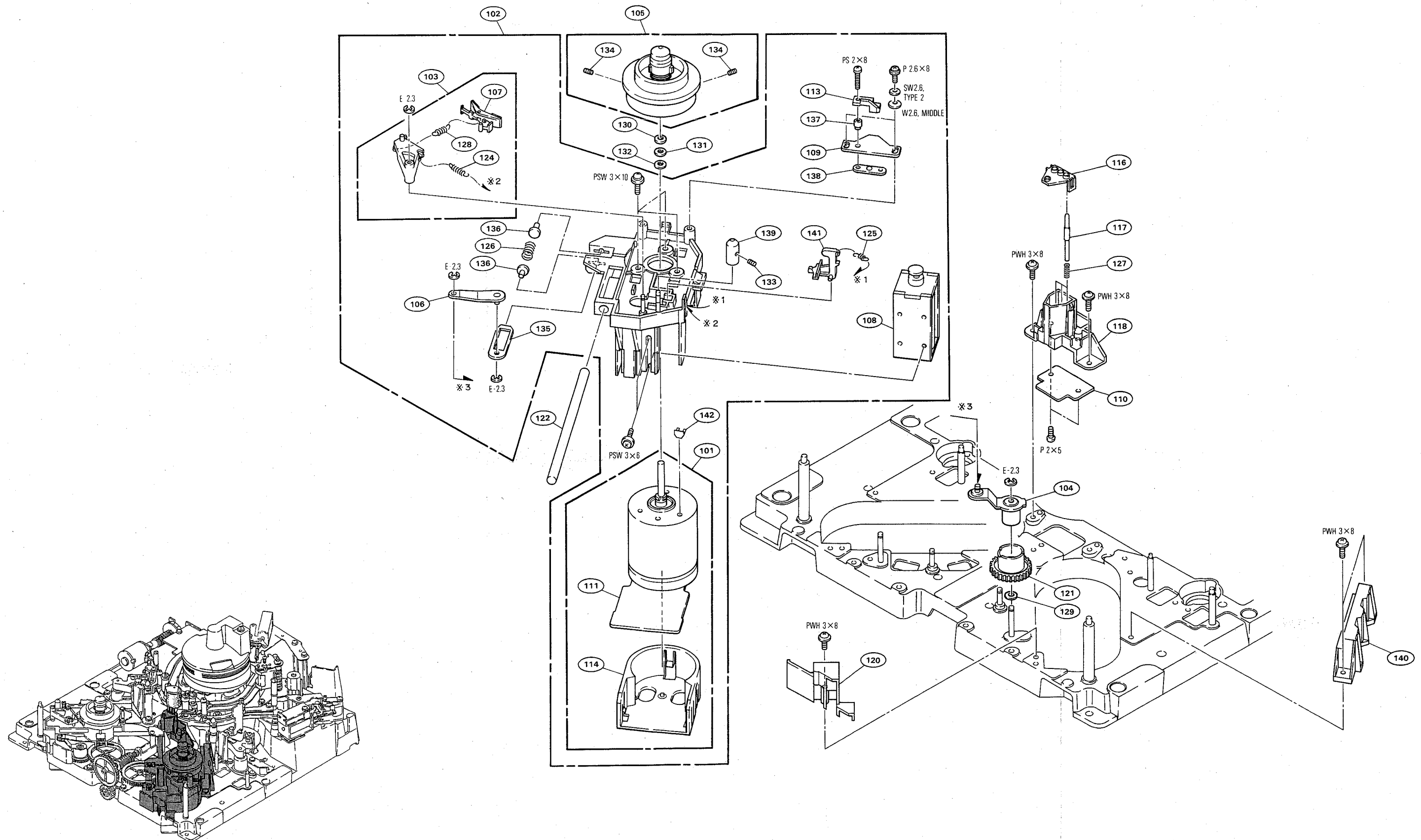


No.	Part No.	SP Description
1	A-6737-206-B	o MOTOR ASSY, LS
2	A-6737-207-A	s RM ASSY
3	A-6739-097-A	s TABLE (S) BLOCK ASSY, RS
4	A-6741-066-A	o BRAKE ASSY
5	X-3166-024-1	o ARM (A) ASSY, CRANK
6	X-3166-025-2	s TABLE ASSY, REEL
7	X-3166-060-1	o ARM (B) ASSY, CRANK
8	X-3717-205-1	s LINING ASSY
9	1-454-417-41	s SOLENOID "S-BRAKE"
10	1-622-606-11	o PRINTED CIRCUIT BOARD, DE-15
11	1-640-166-12	o PRINTED CIRCUIT BOARD, RM-82
12	1-640-168-12	o PRINTED CIRCUIT BOARD, PTC-42
14	1-807-683-11	s DME
15	3-171-308-01	o BRACKET, LS SENSOR
16	3-171-309-01	o COVER, RM
18	3-171-316-01	s GEAR, M
19	3-171-317-01	o BRACKET, M
20	3-171-318-01	o BEARING, WORM
21	3-171-319-01	o SHAFT, WORM
22	3-171-320-01	o GEAR, DRIVE
23	3-171-321-01	o BRACKET, GEAR
25	3-171-397-01	o HOLDER (S), SHAFT
26	3-171-429-01	o GEAR, LS
27	3-171-430-01	o GEAR, CRANK
28	3-171-431-01	s SHAFT, SLIDE
30	3-307-381-00	s SPRING, TENSION
31	3-535-532-01	s SPRING, TENSION
32	3-491-247-00	s SPRING, COMPRESSION
33	3-648-217-00	o SPRING, TENSION
34	3-659-324-00	s SPRING, COMPRESSION
35	3-701-439-21	s WASHER, POLY 3MM DIA., 0.5T
36	3-701-441-01	s WASHER, POLY 4MM DIA., 0.13T
37	3-701-441-11	s WASHER, POLY 4MM DIA., 0.25T
38	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T
39	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
40	3-701-507-00	s SET SCREW, DOUBLE POINT, (M3X5)
41	3-717-208-01	o HOLDER (A), SHAFT
42	3-717-210-01	s WORM
43	3-717-212-01	o WASHER (B), WORM
44	3-717-213-01	o WASHER (A), WORM
45	3-717-224-01	s RETAINER, SHAFT, SLIDE
46	3-717-230-01	o BRACKET, LIMITER
47	3-717-231-01	o HOLDER, LIMITER
48	3-717-232-01	o SHAFT, FITTING, MR SENSOR
49	3-717-233-01	o BRACKET, DE-15
50	3-717-266-01	o CAP (S), CG SHAFT
51	3-717-398-01	o TABLE, SLIDE
52	3-717-399-01	s WHEEL, W
53	3-717-450-01	o ARM, BRAKE RELEASE
54	3-717-625-01	s SPACER
55	8-835-179-01	s MOTOR, DC MCB2B15

EEL CHASSIS (2)

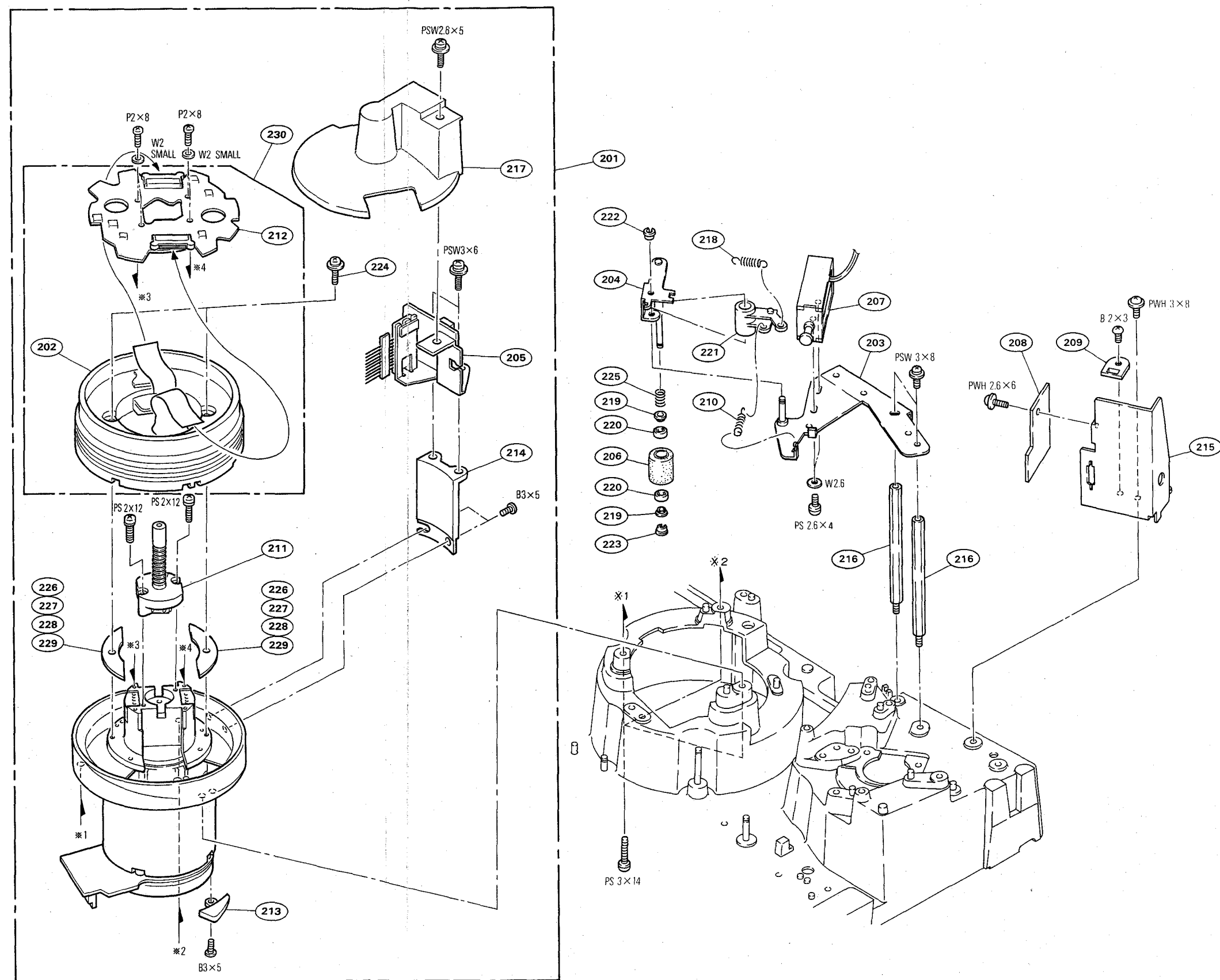
No.	Part No.	SP Description
101	A-6737-207-A	s RM ASSY
102	A-6739-098-A	s TABLE (T) BLOCK ASSY, RS
103	A-6741-066-A	o BRAKE ASSY
104	X-3166-024-1	o ARM (A) ASSY, CRANK
105	X-3166-025-2	s TABLE ASSY, REEL
106	X-3166-060-1	o ARM (B) ASSY, CRANK
107	X-3717-205-1	s LINING ASSY
108	1-454-417-41	s SOLENOID "T-BRAKE"
109	1-622-606-11	o PRINTED CIRCUIT BOARD, DE-15
110	1-640-165-11	o PRINTED CIRCUIT BOARD, PTC-55
111	1-640-166-12	o PRINTED CIRCUIT BOARD, RM-82
113	1-807-683-11	s DME
114	3-171-309-01	o COVER, RM
116	3-171-313-01	o COVER, MC
117	3-171-314-01	s LEVER (B), SENSOR
118	3-171-328-02	o HOLDER, MC DETECTION
120	3-171-428-01	o HOLDER (T), SHAFT
121	3-171-430-01	o GEAR, CRANK
122	3-171-431-01	s SHAFT, SLIDE
124	3-307-381-00	s SPRING, TENSION
125	3-535-532-01	s SPRING, TENSION
126	3-491-247-00	s SPRING, COMPRESSION
127	3-554-202-00	o SPRING, COMPRESSION
128	3-648-217-00	o SPRING, TENSION
129	3-701-439-21	s WASHER, POLY 3MM DIA., 0.5T
130	3-701-441-01	s WASHER, POLY 4MM DIA., 0.13T
131	3-701-441-11	s WASHER, POLY 4MM DIA., 0.25T
132	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T
133	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
134	3-701-507-00	s SET SCREW, DOUBLE POINT, (M3X5)
135	3-717-230-01	o BRACKET, LIMITER
136	3-717-231-01	o HOLDER, LIMITER
137	3-717-232-01	o SHAFT, FITTING, MR SENSOR
138	3-717-233-01	o BRACKET, DE-15
139	3-717-266-01	o CAP (S), CG SHAFT
140	3-717-398-01	o TABLE SLIDE
141	3-717-450-01	o ARM, BRAKE RELEASE
142	3-717-625-01	s SPACER

Reel chassis (2)



DRUM & CLEANING ROLLER ASSEMBLY

This technical drawing illustrates a complex mechanical assembly, possibly a part of a printing press. The assembly is mounted on a sturdy, rectangular base. Key components include a large, central cylindrical component with a textured surface, likely a roller or a drum. To the left, there is a large gear wheel with many teeth, connected to a smaller gear. Various levers, rods, and smaller gears are visible, suggesting a sophisticated mechanism for controlling the movement of the central component. The drawing is a perspective view, showing the three-dimensional nature of the assembly.



No.	Part No.	SP Description
201	A-8260-249-A	s HEAD DRUM ASSY, DBH-34A-R
202	A-8260-250-A	s DRUM ASSY (DBR-34-R), UPPER ROTARY
203	X-3166-324-1	o C (BASE) ASSY
204	X-3166-325-1	o ARM ASSY, C MAIN
205	A-8262-727-A	s BRUSH ASSY (RP)
206	X-3675-858-1	s ROLLER SUB ASSY, C
207	1-454-372-11	s SOLENOID "CLEANING ROLLER"
208	1-640-167-11	o PRINTED CIRCUIT BOARD, DS-31
209	1-806-682-71	s SENSOR, DEW CONDENSATION
210	3-140-263-XX	s SPRING, TENSION (23T)
211	A-8262-728-A	s RING (8) ASSY (RP), SLIP
212	A-8262-729-A	o MOUNTED CIRCUIT BOARD, PA-108
213	3-171-326-01	o BRACKET (B) TAPE
214	3-172-347-02	o SUPPORT, BRUSH
215	3-172-933-01	o BRACKET, DEW SENSOR
216	3-173-187-02	o SUPPORT
217	3-172-348-01	o COVER, BRUSH
218	3-542-475-00	s SPRING, TENSION
219	3-655-966-00	s SPACER, STEP
220	3-669-443-01	s BEARING, BALL (NO FLANGE)
221	3-680-839-01	o LEVER (2), C
222	3-703-074-00	s CAP 3, SHAFT
223	3-703-075-00	s CAP 2, SHAFT
224	3-729-126-01	s SCREW (M3×10)
225	4-879-762-00	s SPRING, COMPRESSION
226	3-683-828-01	s SPACER, FLANGE
227	3-683-828-11	s SPACER, FLANGE
228	3-683-828-21	s SPACER, FLANGE
229	3-683-828-31	s SPACER, FLANGE
230	A-8260-251-A	s DRUM ASSY (DBR-34A-R), UPPER ROTARY

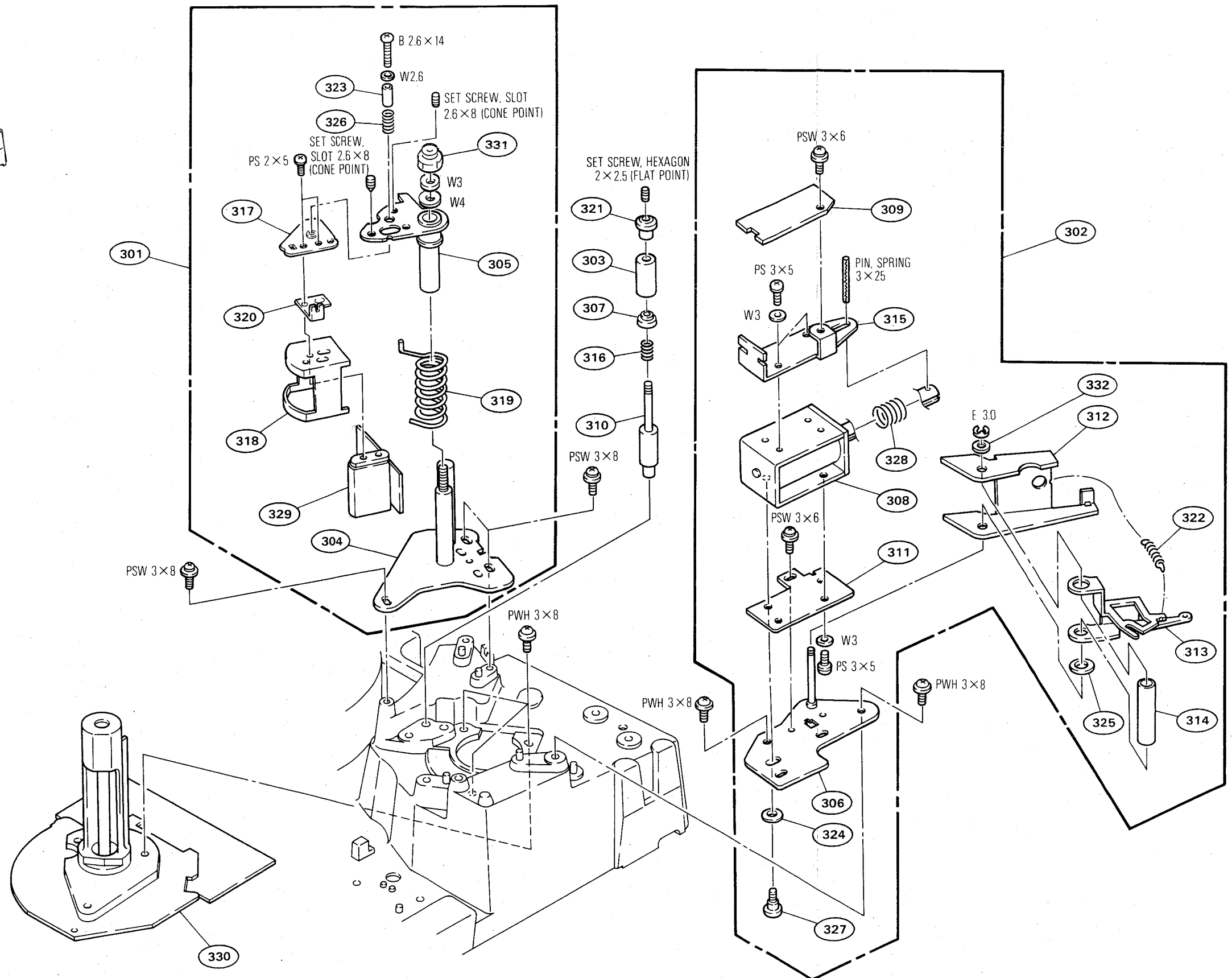
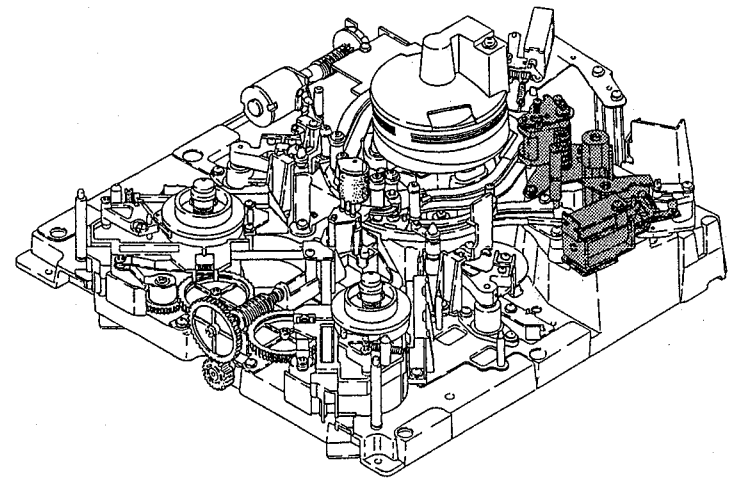
AD & PINCH PRESS ASSEMBLY

No.	Part No.	SP Description
301	A-6736-098-C	o HEAD (P) ASSY, AT
302	A-6749-125-A	o PRESS ASSY, PINCH
303	X-3166-431-1	s ROLLER (TG-6) ASSY, TAPE
304	X-3166-044-2	s DECK (P) ASSY, AT
305	X-3166-050-1	o PLATE ASSY, ADJUSTMENT, RP
306	X-3166-061-2	o BASE ASSY, PINCH PRESS
307	3-174-316-02	s FLANGE (LOWER)
308	1-454-338-00	s SOLENOID "PINCH"
309	1-640-162-12	o PRINTED CIRCUIT BOARD, PD-56
310	3-171-307-01	o SHAFT, TG-6
311	3-171-331-01	o BASE, SOLENOID
312	3-171-332-01	o ARM, PINCH PRESS
313	3-171-333-01	o ARM, SUB PRESS
314	3-171-334-02	o COLLAR, PINCH SHAFT
315	3-171-335-01	o HOLDER, PC BOARD
316	2-242-703-00	s SPLING, COMPLESSION
317	3-171-567-02	o BRACKET, RP
318	3-171-568-01	o CASE, SHIELD, AT
319	3-171-569-01	s SPRING (A)
320	3-171-570-01	o PLATE (R), ADJUSTMENT
321	3-173-176-01	s NUT, ADJUSTMENT
322	3-578-532-00	s SPRING, TENSION
323	3-642-719-00	o SPACER (2.6X11)
324	3-701-441-21	s WASHER, POLY 4MM DIA., Q. 50T
325	3-701-444-21	s WASHER, POLY 6MM DIA., Q. 50T
326	3-738-730-01	s SPRING, COMPRESSION
327	4-835-134-00	s SCREW, TD 3.8X2.5
328	4-860-709-02	s SPRING, COMPRESSION
329	8-825-776-22	s HEAD PS244-2103E "AUDIO/TC"
330	8-835-445-01	s MOTOR, DC SCV-0301A "CAPSTAN"
331	4-334-513-00	s NUT, NYLON
332	3-701-441-11	s WASHER

HEAD & PINCH PRESS ASSEMBLY

HEAD & PINCH PRESS ASSEMBLY

Head and pinch press assembly

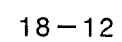


RAIL & SLIDER ASSEMBLY

This is a detailed exploded view diagram of a mechanical assembly, likely a centrifugal pump or a similar fluid-handling device. The diagram shows the following components from left to right:

- Base Housing:** The main structural frame at the bottom, featuring mounting feet and a central shaft support.
- Impeller Assembly:** Located in the center, it includes a curved impeller mounted on a shaft. The shaft is supported by bearings and a coupling mechanism.
- Internal Mechanisms:** Various internal components like gears, pistons, and connecting rods are shown in their relative positions, illustrating how they fit together.
- Top Cover/Housing:** The upper part of the assembly, which would enclose the internal mechanisms and impeller.

The diagram uses standard engineering conventions, with hatching to indicate different materials and dashed lines to show the assembly sequence and alignment of parts.

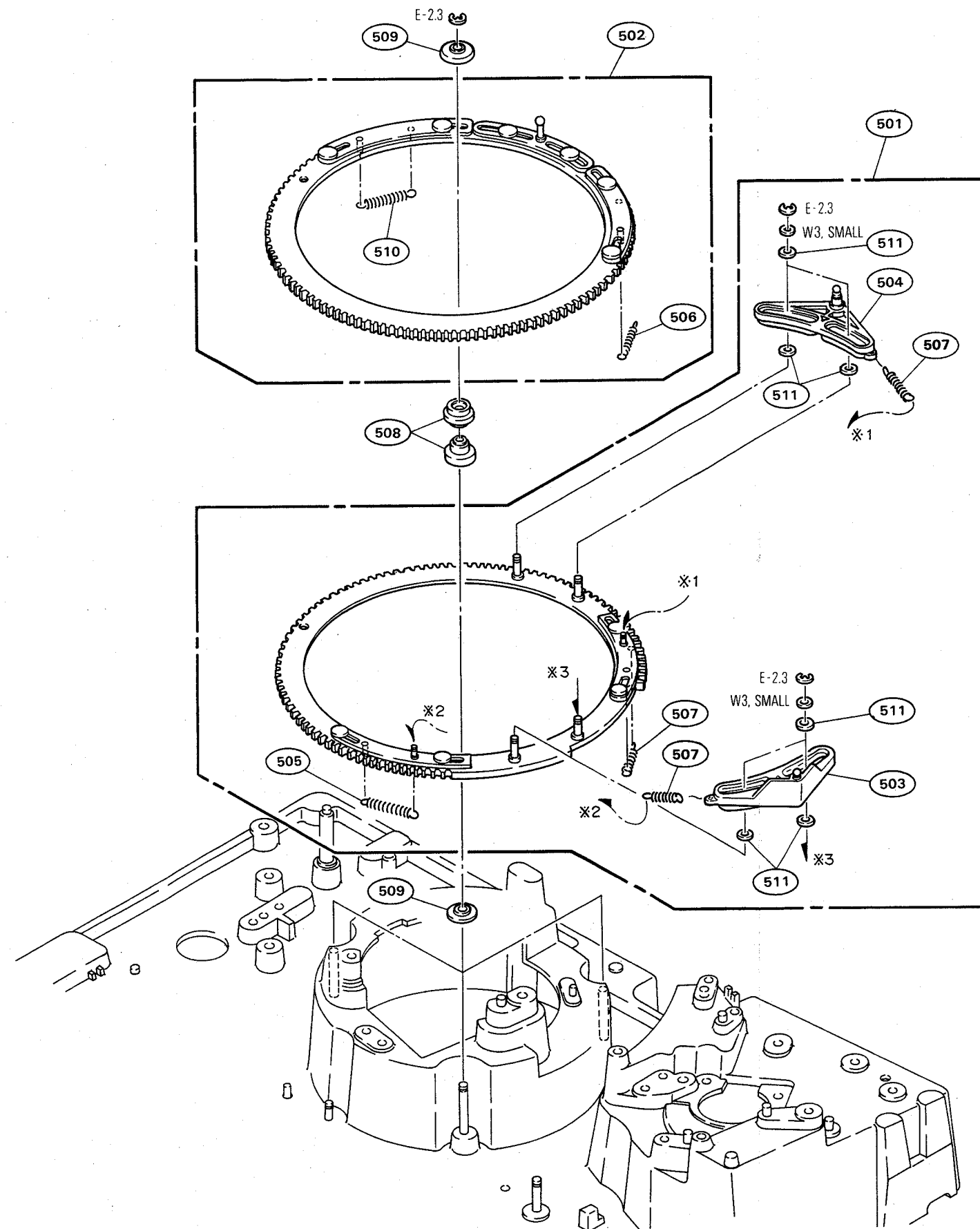
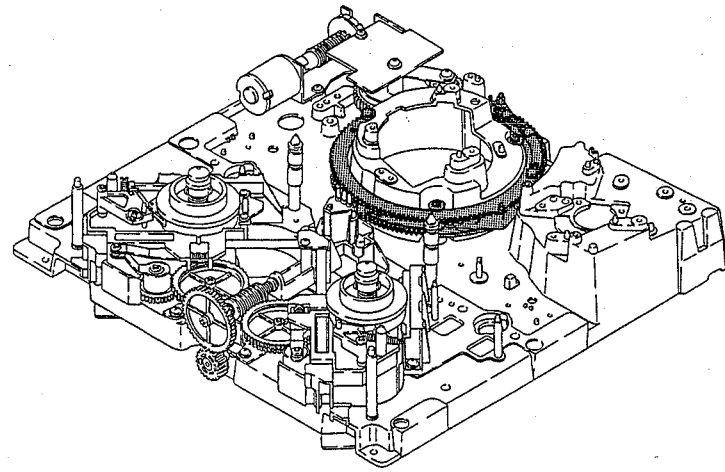


No.	Part No.	SP Description
401	A-8262-601-A	s SLIDER ASSY, S
402	A-6750-292-C	s SLIDER ASSY, T
403	A-6750-293-D	s SLIDER ASSY, P
404	X-3166-027-1	o BASE ASSY, CTL
405	X-3166-573-1	s TG-3 ASSY
406	3-176-903-01	s GUIDE TAPE
407	X-3166-040-3	s ARM ASSY, PINCH
408	X-3166-042-2	o BASE SUB ASSY, P
409	X-3166-072-5	s BASE SUB ASSY, ST
410	X-3166-320-1	s TG-5 ASSY
411	3-174-315-01	s FLANGE (UPPER)
412	3-176-902-01	s FLANGE (LOWER)
413	X-3166-386-1	s TG-4 (IP) ASSY
414	3-171-344-01	s SPRING, COMPRESSION
415	3-171-345-01	s PLATE, ADJUSTMENT, S
416	3-171-346-01	o SPRING, ADJUSTMENT
417	3-171-347-02	o SCREW, ADJUSTMENT
418	3-171-348-02	s RAIL, S
419	3-171-349-03	o RAIL, T
420	3-171-378-02	s PLATE, ADJUSTMENT, T
421	3-171-381-02	o ARM, CTL
422	3-171-382-01	s SPRING, CTL
423	3-171-383-02	o PLATE, SIDE, CTL
424	3-171-432-02	s ROD, S
425	3-171-433-02	s ROD, T
426	3-171-434-02	s ROD, P
427	3-171-498-01	s SPRING, PINCH ARM RETURN
428	3-171-515-01	s PLATE, ADJUSTMENT, P
429	3-173-176-01	s NUT, ADJUSTMENT
430	3-173-648-01	o RETAINER, BEARING
431	3-176-408-01	s FLY WHEEL (D75)
432	3-655-966-00	s SPACER, STEP
433	3-698-829-01	s NUT (M2)
434	3-701-439-01	s WASHER, POLY 3MM DIA., 0.13T
435	8-825-776-41	s HEAD PS244-21C "CTL"
436	3-174-911-01	o COVER, AU, HEAD
437	3-513-234-00	s SPRING, COMPRESSION

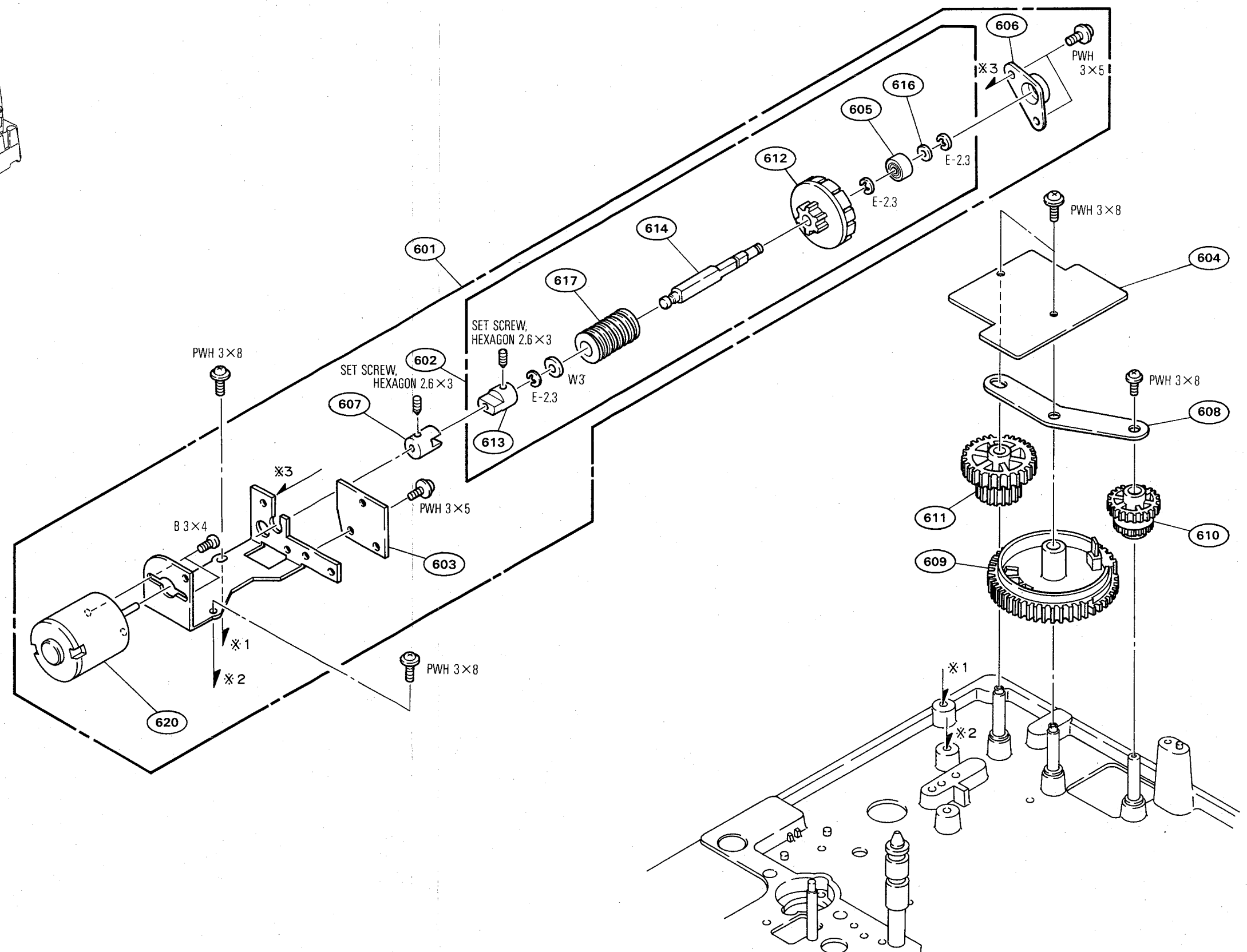
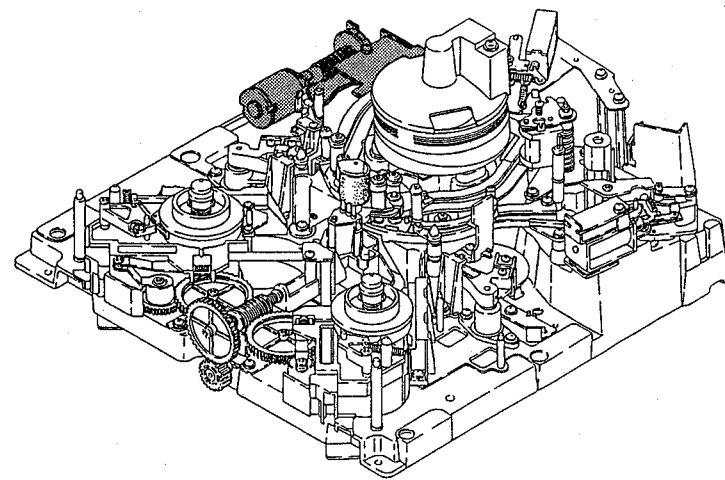
READING RING

No.	Part No.	SP Description
501	A-6750-289-C	o RING ASSY, T
502	A-6750-290-B	o RING ASSY, S
503	X-3166-028-2	o SLIDER ASSY, P
504	X-3166-029-2	o SLIDER ASSY, T
505	3-171-384-01	o SPRING, TENSION
506	3-171-385-01	o SPRING, TENSION
507	3-171-386-01	o SPRING, TENSION
508	3-171-435-02	o ROLLER (A), RING
509	3-171-436-01	o ROLLER (B), RING
510	3-171-468-01	o SPRING, TENSION
511	3-701-439-11	s WASHER, POLY 3MM DIA., 0.25T

Threading ring



Threading gear box assembly



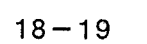
No.	Part No.	SP Description
601	A-6750-294-C	s MOTOR ASSY, LOADING
602	A-6750-295-B	o WORM ASSY
603	1-640-163-11	o PRINTED CIRCUIT BOARD, PTC-54
604	1-640-164-11	o PRINTED CIRCUIT BOARD, PTC-49
605	2-621-007-01	s BEARING, BALL, (B) (NO FRANGE)
606	3-171-336-01	o HOLDER, BEARING
607	3-171-337-01	o JOINT (1)
608	3-171-352-01	o REINFORCEMENT
609	3-171-353-02	o GEAR, MAIN
610	3-171-354-02	o GEAR, S
611	3-171-355-01	o WHEEL, WORM
612	3-171-389-01	o RING, FG
613	3-171-390-01	o JOINT (2)
614	3-171-391-01	o SHAFT, WORM
616	3-701-439-21	s WASHER, POLY 3MM DIA., 0.50T
617	3-717-210-01	s WORM
620	8-835-179-01	s MOTOR, DC MCB2B15

TENSION REGULATOR ASSEMBLY

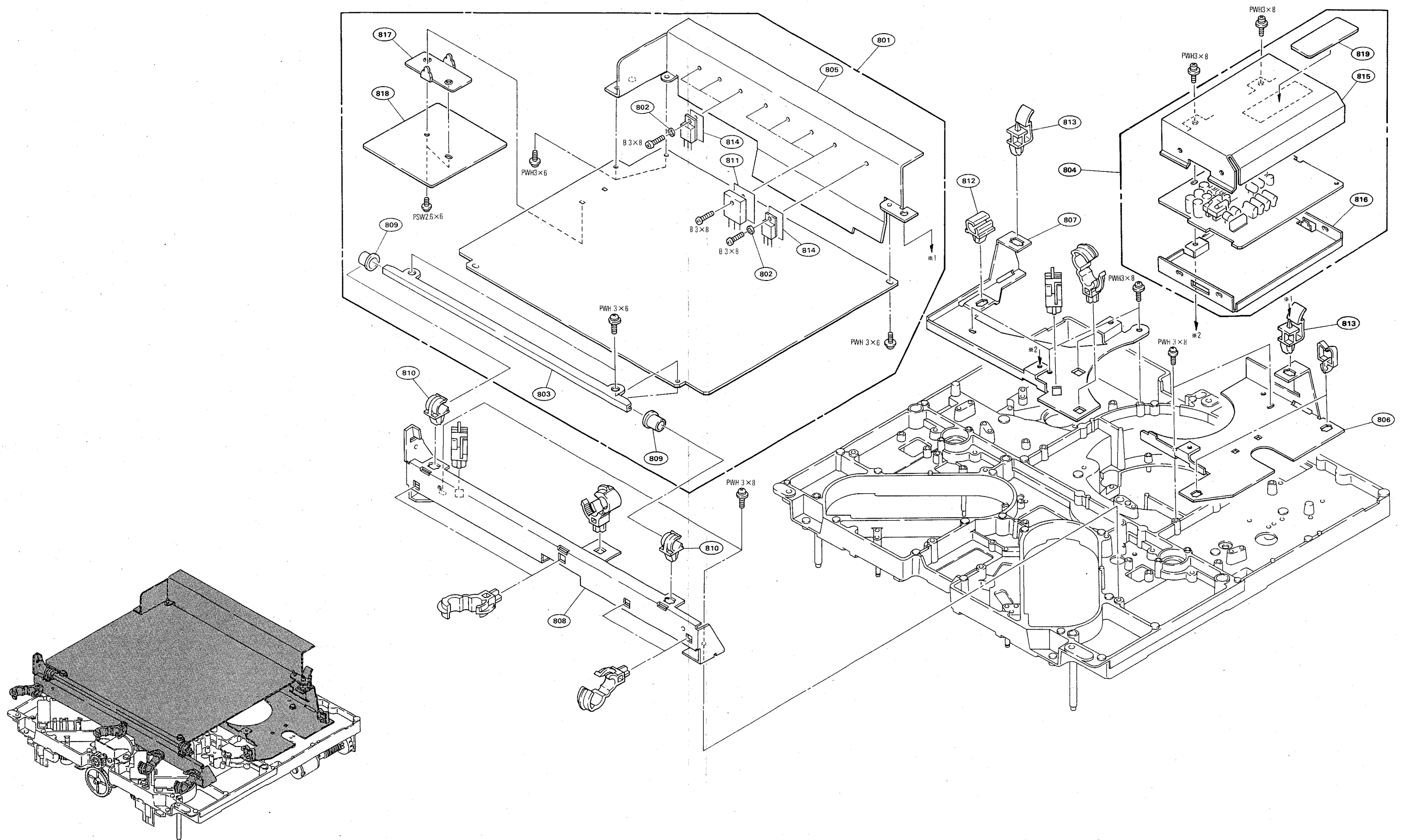
No.	Part No.	SP Description
701	X-3166-037-2	s ROLLER (M) ASSY, TAPE
702	X-3166-043-2	o ARM ASSY, CASSETTE EXIT
703	X-3166-047-1	o ARM ASSY, SUB DRIVING
704	X-3166-048-3	o GEAR SUB ASSY, DRIVING
705	X-3166-051-2	s ARM ASSY, S TENSION REGULATOR
706	X-3166-052-1	s ROLLER (S-T) ASSY, TAPE
707	X-3166-053-2	o YOKE ASSY, MAGNET
708	X-3166-054-1	o ARM ASSY, DRIVING
709	X-3166-055-2	s SUPPORT ASSY, TENSION REGULATOR
710	X-3166-057-2	s ARM ASSY, T TENSION REGULATOR
711	X-3166-059-1	o ARM ASSY, DRIVING
712	3-174-315-01	s FLANGE (UPPER)
713	3-174-316-02	s FLANGE (LOWER)
714	1-543-316-31	s HEAD, SENSING
715	1-640-161-11	o PRINTED CIRCUIT BOARD, TR-73
716	2-279-715-01	s RIVET, NYLON
717	3-531-860-00	s SPRING, TENSION
718	3-171-350-01	o STOPPER, T
719	3-171-351-01	o STOPPER, TENSION REGULATOR
720	3-171-392-01	s HOLDER, DME
721	3-171-516-01	o HOLDER, S SENSOR
722	3-171-519-02	s HOLDER, T SENSOR
723	3-171-520-01	o DISK (A), S TENSION REGULATOR
724	3-171-579-02	o SPRING, LEAF, TENSION REGULATOR
725	3-176-613-01	o PROTECTOR
726	3-171-592-01	o STOPPER, S
727	3-172-763-01	o HOLDER, SENSOR HARNESS
728	3-173-172-01	s FLANGE, LOWER
729	3-173-176-01	s NUT, ADJUSTMENT
730	3-701-439-21	s WASHER, POLY, 3MM DIA., 0.5T
731	3-701-447-21	s WASHER,
732	3-701-448-21	s WASHER, POLYETHYLENE
733	4-879-563-00	s SPRING, COMPRESSION
734	2-618-901-00	s SPRING, COMPRESSION

TENSION REGULATOR ASSEMBLY

A detailed technical drawing of a mechanical assembly, likely a pump or engine component. The drawing shows a complex arrangement of parts including gears, shafts, and a central cylindrical component. The assembly is mounted on a base plate. The drawing is a perspective view, showing the internal components and their relationships. The central part is a large cylindrical component with a flange. To its left, there are two gears of different sizes meshed together. Various shafts and bearings support these components. The entire assembly is mounted on a rectangular base plate with several mounting points. The drawing is a line drawing with cross-hatching used to indicate different materials or sections.



Reel chassis (3)



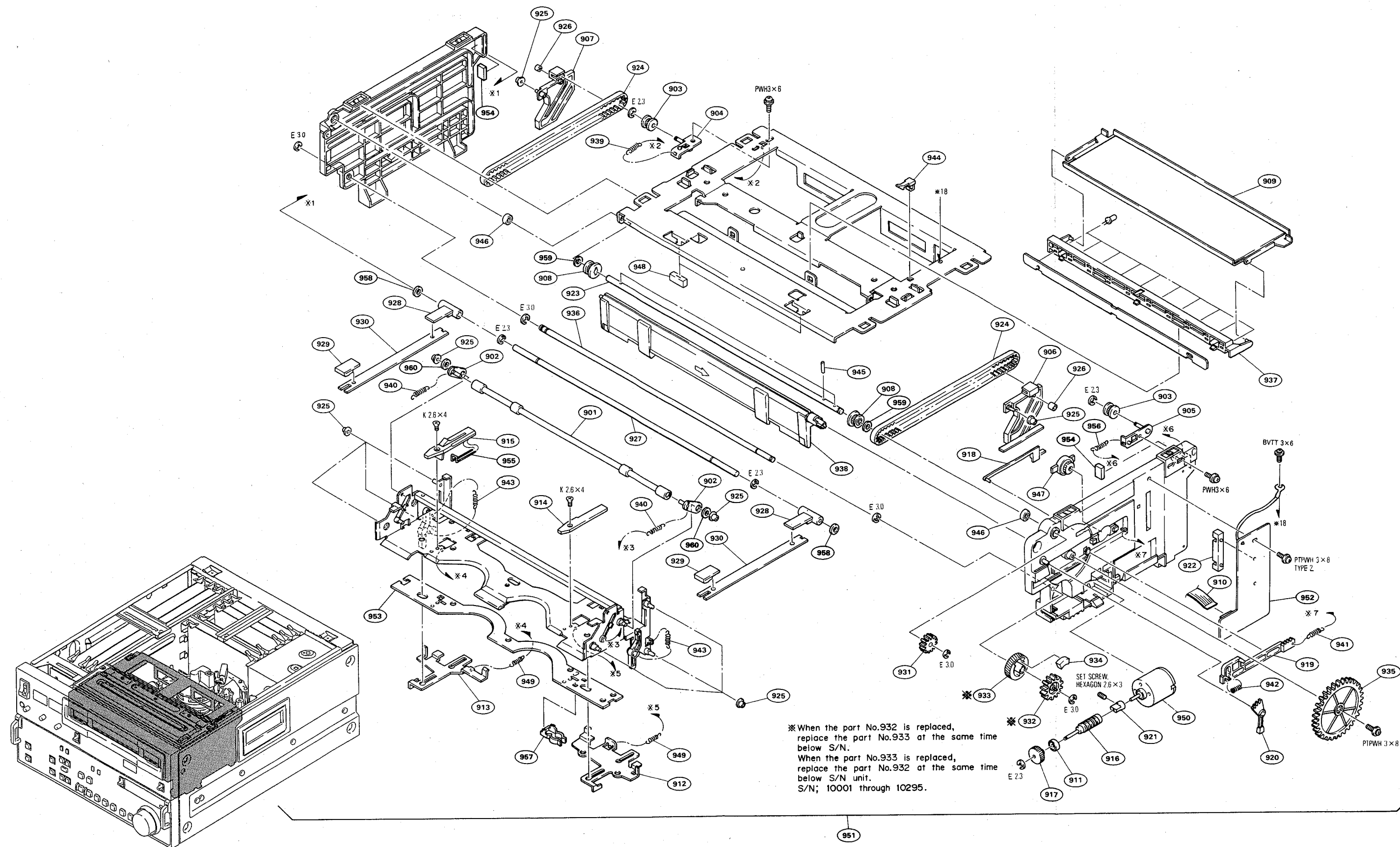
No.	Part No.	SP Description
801	A-6717-623-B	o MOUNTED CIRCUIT BOARD, DR-118A
802	2-371-561-00	s BUSHING (P), INSULATING
803	3-171-393-01	o SUPPORT, DR
804	A-8271-469-A	o MOUNTED CIRCUIT BOARD, DT-29AP
805	3-171-493-01	o HEAT SINK (A)
806	3-171-494-02	o PLATE, FIXED, DD
807	3-171-505-02	o PLATE, FIXED, DT
808	3-171-506-02	o PLATE, FIXED, DR
809	3-646-084-00	o CAP, REINFORCEMENT
810	3-646-086-00	o HOLDER, ROD
811	3-660-978-00	s SHEET, HEAT RESISTING
812	3-703-072-00	o HOLDER, PCB
813	3-703-141-00	o HOLDER, PCB
814	4-911-232-01	s SHEET, INSULATING
815	3-172-469-01	o CASE (A), DT SHIELD
816	3-172-470-01	o CASE (B), DT SHIELD
817	3-176-490-01	o HEAT SINK (1), DR
818	3-176-491-01	o HEAT SINK (2), DR
819	3-703-044-26	o LABEL, CAUTION

ASSETTE COMPARTMENT ASSEMBLY

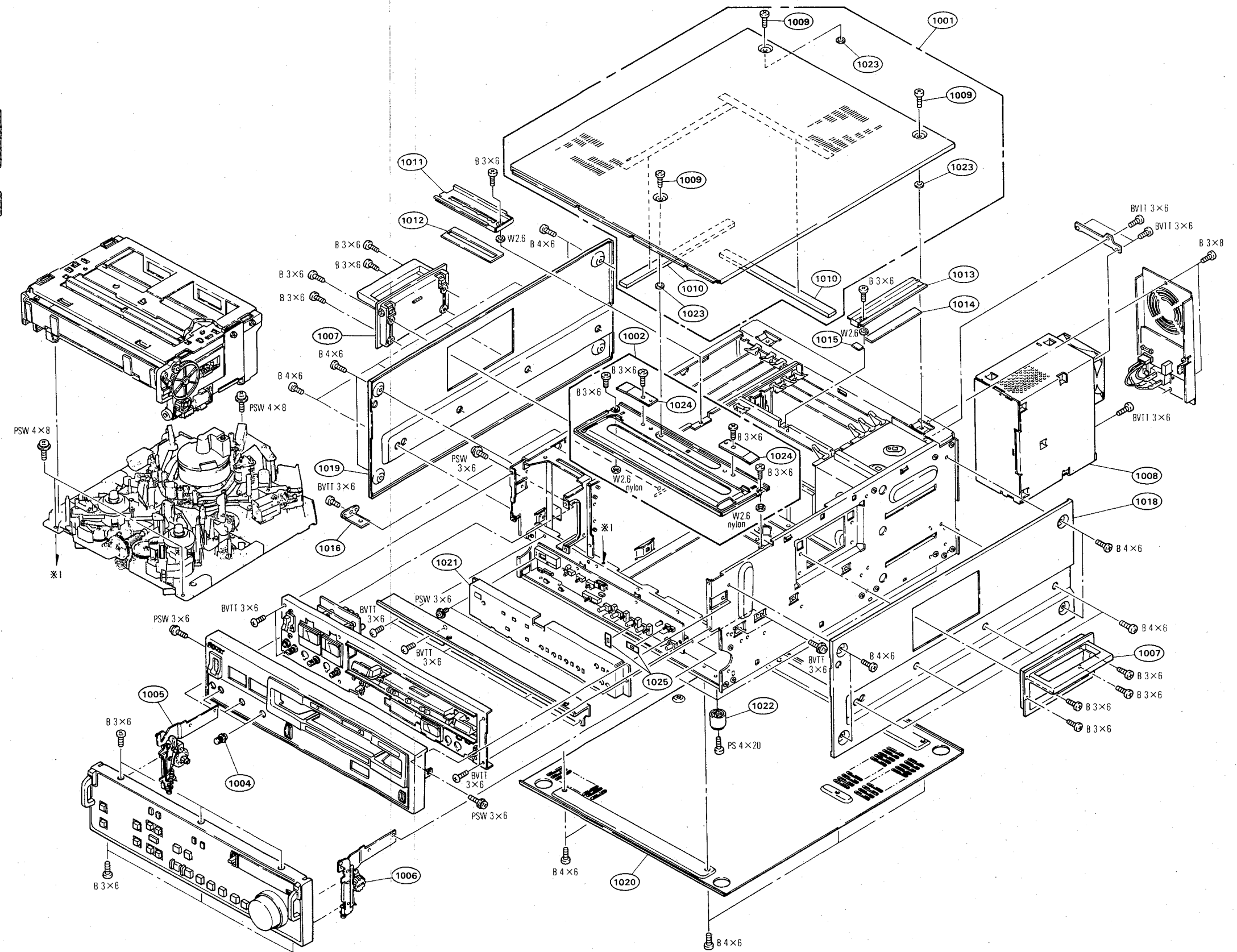
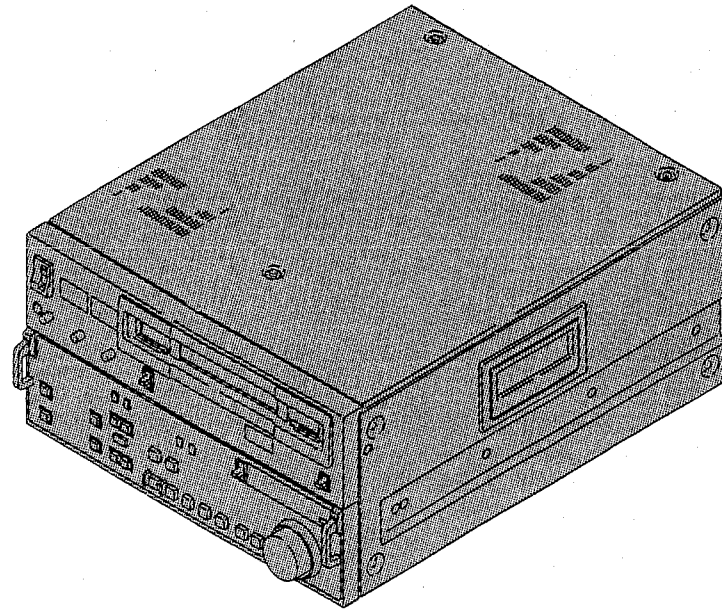
No.	Part No.	SP Description
901	X-3166-062-1	o SHAFT ASSY, PRESS ROLLER
902	X-3166-063-2	o ARM ASSY, PRESS
903	3-176-584-01	o PULLEY (B)
904	X-3166-065-1	o DECK (L) ASSY, PULLEY
905	X-3166-066-1	o DECK (R) ASSY, PULLEY
906	X-3166-067-1	o SLIDER (R) ASSY
907	X-3166-068-1	o SLIDER (L) ASSY
908	3-176-583-01	o PULLEY (A)
909	X-3166-217-1	s MIRROR ASSY
910	1-690-106-12	s WIRE, FLEXIBLE CARD 5P
911	2-621-007-01	s BEARING, BALL, (B) (NO FRANGE)
912	3-171-367-03	o SWITCH (R), IN
913	3-171-398-03	o SWITCH (L), IN
914	3-171-399-01	o GUIDE (R), CASSETTE
915	3-171-400-03	o GUIDE (L), CASSETTE
916	3-171-418-01	s WORM
917	3-171-419-02	s WHEEL
918	3-171-420-01	o SHUTTER
919	3-171-421-01	o SLIDER, DOOR SWITCHING
920	3-171-422-01	o LEVER, DOOR SWITCHING
921	3-171-423-02	o JOINT, MOTOR
922	3-171-424-01	o HOLDER, SENSOR
923	3-171-457-01	o SHAFT, JOINT
924	3-171-458-01	s BELT, TIMING
925	3-171-459-01	s ROLLER, GUIDE
926	3-171-460-01	s ROLLER, SLIDER
927	3-171-461-01	o SHAFT, RETAINER, L CASSETTE
928	3-171-462-01	o HOLDER, SHAFT
929	3-171-463-02	o PLATE
930	3-171-464-01	o SPRING, LEAF
931	3-171-465-01	o GEAR, DRIVING
932	3-171-466-02	o GEAR, LIMITER
		S/N 10001 through 10295
		When this part is replaced on the unit above S/N,
		replace the part No. 933 at the same time.
933	3-171-477-02	o WHEEL, WORM
		S/N 10001 through 10295
		When this part is replaced on the unit above S/N,
		replace the part No. 932 at the same time.
934	3-171-478-01	o RUBBER, LIMITER
935	3-171-479-01	o GEAR, MIDWAY
936	3-171-480-01	o SHAFT, WORM WHEEL
937	3-171-508-02	o HOLDER, LAMP
938	3-171-510-02	s DOOR, CASSETTE
939	3-176-578-01	s SPRING, TENSION
940	3-548-757-00	s SPRING, TENSION
941	3-672-461-00	s SPRING, TENSION
942	3-579-759-00	s SPRING, COMPRESSION
943	3-646-214-00	s SPRING

No.	Part No.	SP Description
944	3-671-150-11	o CLAMP
945	3-677-193-00	o PIN, STOPPER
946	3-698-217-01	s BEARING (NO FLANGE), BALL
947	3-712-786-01	s DAMPER, OIL
948	3-717-369-03	o STOPPER, DOOR
949	4-858-799-00	s SPRING, TENSION
950	8-835-179-01	s MOTOR, DC MCB2B15
951	A-6751-474-A	s CASSETTE COMPARTMENT ASSY
952	1-640-170-13	o PRINTED CIRCUIT BOARD, CL-25
953	1-640-171-12	o PRINTED CIRCUIT BOARD, PC-62
954	3-174-908-01	s STOPPER
955	3-176-139-01	s SPRING, C GUIDE
956	3-176-579-01	s SPRING, TENSION
957	3-176-598-02	o SPRING, GROUND
958	3-701-439-21	s WASHER POLY 3MMDIA, .0.50T
959	3-701-441-11	s WASHER
960	3-701-443-21	s WASHER POLY 5MMDIA, .0.50T

Cassette compartment assembly



Chassis and ornamental panel block

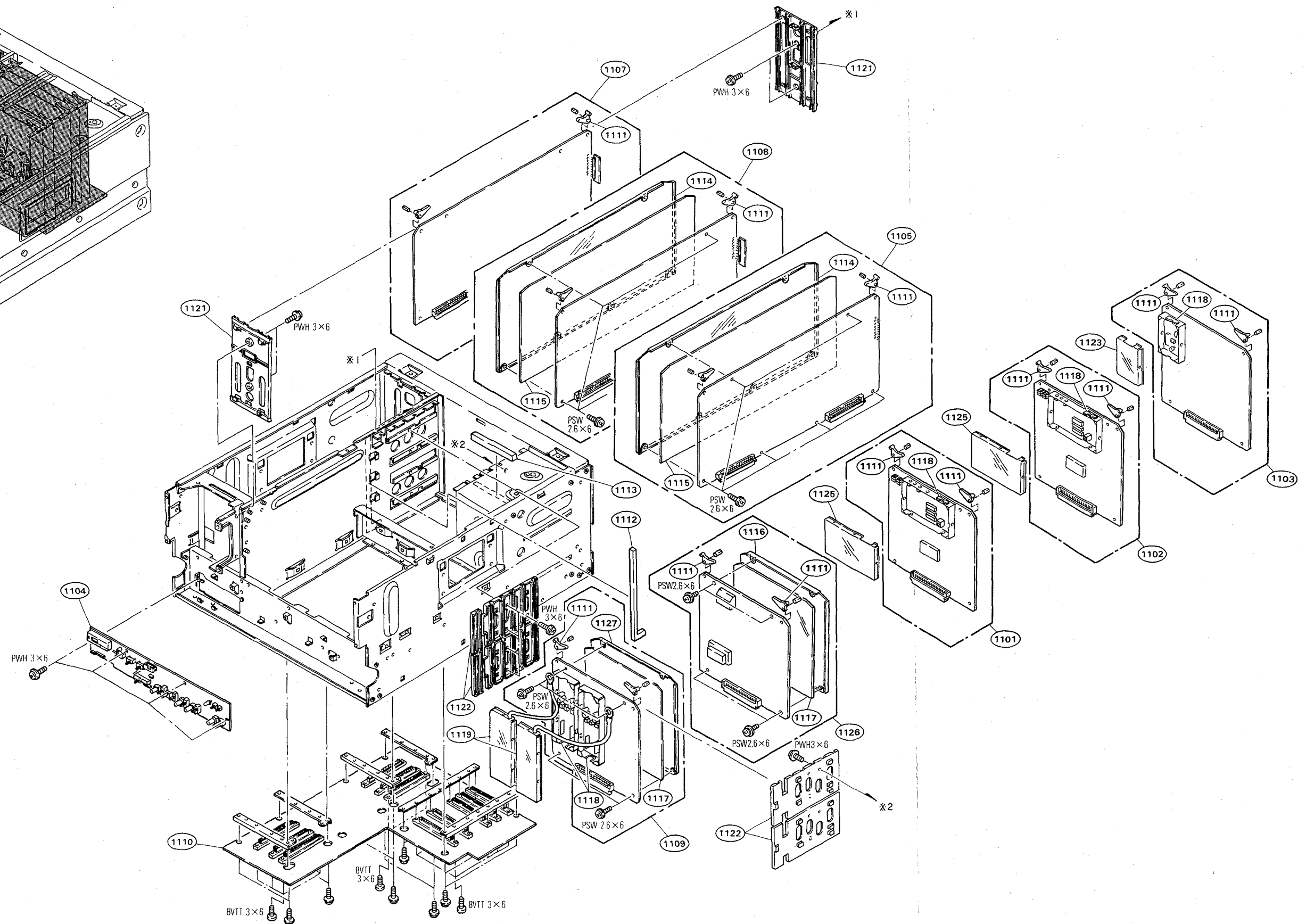


No.	Part No.	SP Description
1001	A-6703-711-F	o LID ASSY, UPPER
1002	A-6771-428-A	s STAY ASSY, CASSETTE COMPARTMENT
1004	X-3166-071-1	s KNOB ASSY (B), VOL
1005	X-3166-076-4	o HINGE (L) ASSY
1006	X-3166-077-4	o HINGE (R) ASSY
1007	X-3642-018-0	o HANDLE ASSY
1008	△1-413-675-11	s REGULATOR, SWITCHING
1009	3-174-264-01	s SCREW (+) (B4×8)
1010	3-171-369-01	o LID (A), UPPER, AIR GUARD
1011	3-171-377-01	o RETAINER (L), PC BOARD
1012	3-171-408-01	o RETAINER (L), PC BOARD
1013	3-171-409-01	o RETAINER (S), PC BOARD
1014	3-171-410-01	o RETAINER (S), PC BOARD
1015	3-171-411-01	o RETAINER (RP), PC BOARD
1016	3-171-489-01	o BRACKET, PLATE, BOTTOM
1018	3-171-533-01	o CABINET (RIGHT)
1019	3-171-534-01	o CABINET (LEFT)
1020	3-171-535-01	o PLATE, BOTTOM
1021	3-171-536-31	o PLATE, ORNAMENTAL, HC
1022	3-642-656-01	s FOOT
1023	3-688-102-01	o SPACER, M4
1024	3-717-306-01	o SPRING
1025	3-717-394-03	o PLATE (SMALL), ORNAMENTAL, SW

ARD RACK BLOCK

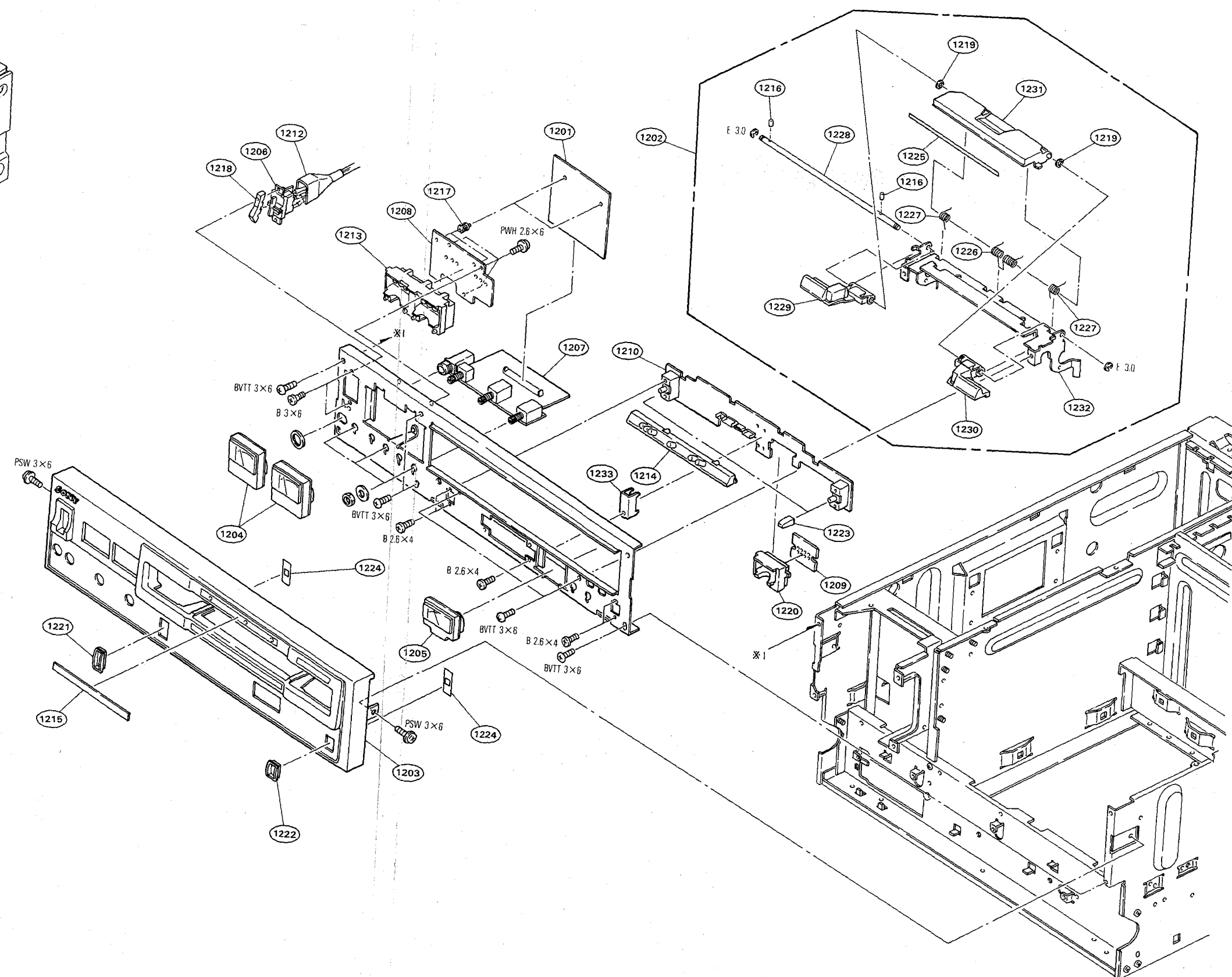
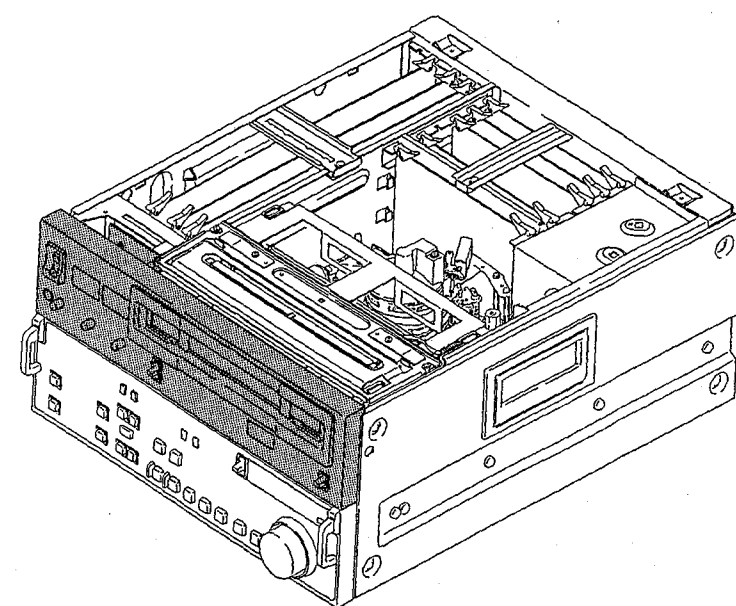
No.	Part No.	SP Description
1101	A-6713-472-A	o MOUNTED CIRCUIT BOARD, AU-148AP
1102	A-6713-473-A	o MOUNTED CIRCUIT BOARD, AU-149AP
1103	A-6713-456-A	o MOUNTED CIRCUIT BOARD, AU-150A
1104	A-6717-635-A	o MOUNTED CIRCUIT BOARD, HC-14C
1105	A-6717-637-A	o MOUNTED CIRCUIT BOARD, SS-48P
1107	A-8271-390-A	o MOUNTED CIRCUIT BOARD, VP-33 (BP)
1108	A-6727-378-A	o MOUNTED CIRCUIT BOARD, TBC-18P
1109	A-8271-389-A	o MOUNTED CIRCUIT BOARD, RP-57 (BP)
1110	A-8276-209-A	o MOUNTED CIRCUIT BOARD, MB-322B
1111	2-251-622-11	s LEVER, PC BOARD
1112	3-171-413-01	o GUARD (M), AIR
1113	3-171-414-02	o GUARD (SW), AIR
1114	3-171-453-03	o PLATE (L), SHIELD, CARD
1115	3-171-454-02	o SHEET (L), CARD
1116	3-171-455-01	o PLATE (S), SHIELD, CARD
1117	3-171-456-02	o SHEET (S), CARD
1118	3-171-485-02	o GUARD, EDGE
1119	1-949-962-11	o HARNESS (RP SHIELD)
1121	3-171-525-02	o GUIDE (L), PCB
1122	3-171-527-01	o GUIDE (S), PCB
1123	3-172-937-01	o LID, AU SHIELD PLATE (2)
1125	3-172-941-02	o LID, AU SHIELD PLATE (1)
1126	A-8271-183-A	o MOUNTED CIRCUIT BOARD, DT-30
1127	X-3166-417-2	o PLATE (S) ASSY, SHIELD, CARD

CARD RACK BLOCK



FRONT PANEL BLOCK FRONT PANEL BLOCK

Front panel block

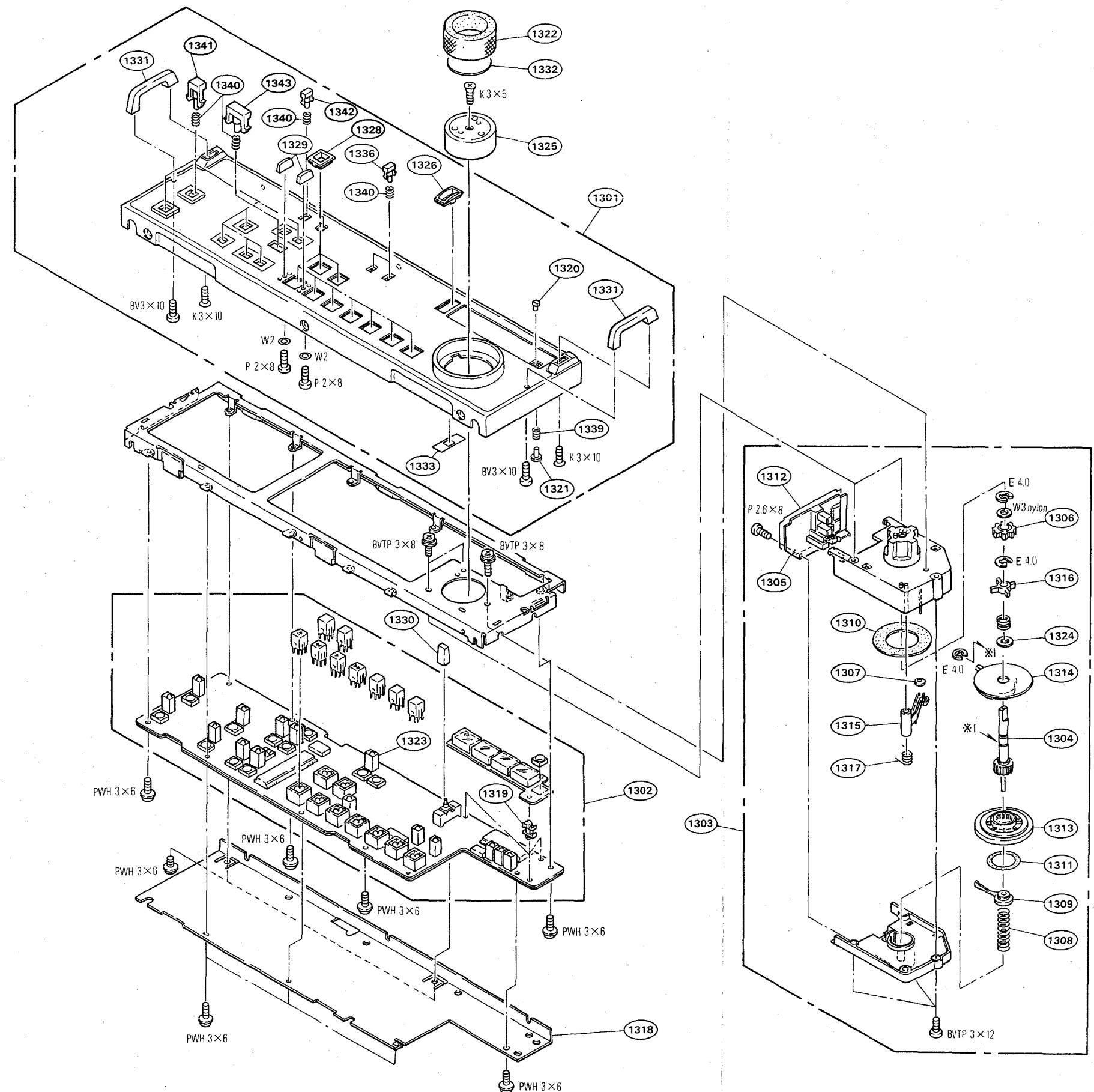
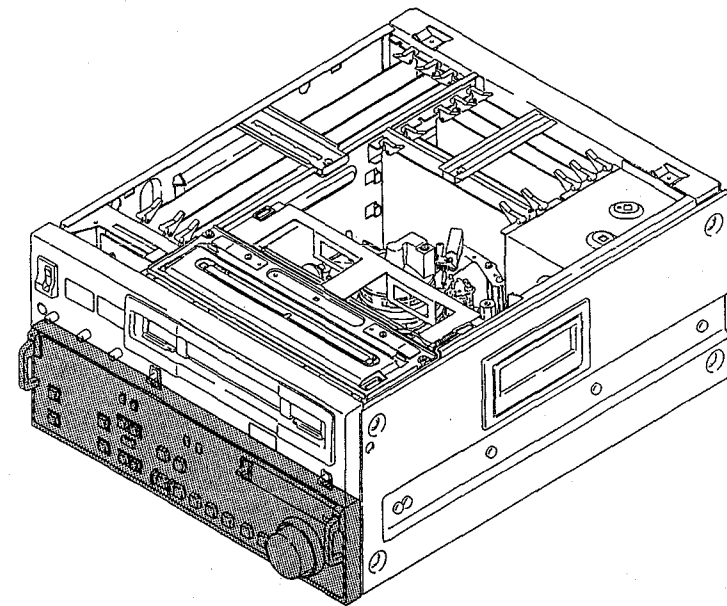


No.	Part No.	SP Description
1201	A-8271-181-A	o MOUNTED CIRCUIT BOARD, MA-44B
1202	A-6751-377-A	o GUIDE ASSY, SC
1203	X-3166-565-1	o PANEL SUB ASSY, FRONT
1204	1-520-393-21	s METER, AUDIO LEVEL
1205	1-520-494-21	s METER, VIDEO LEVEL
1206	Δ1-570-117-11	s SWITCH, SEESAW (AC POWER)
1207	1-640-039-31	o PRINTED CIRCUIT BOARD, VR-116A
1208	1-640-040-31	o PRINTED CIRCUIT BOARD, DP-138A
1209	1-640-042-31	o PRINTED CIRCUIT BOARD, DP-159A
1210	1-640-043-31	o PRINTED CIRCUIT BOARD, SW-444A
1212	2-269-962-00	o COVER, SWITCH
1213	3-171-415-01	o HOLDER, METER LED
1214	3-171-416-01	o HOLDER, LED
1215	3-171-291-31	o LABEL (P), MODEL
1216	3-677-193-00	o PIN, STOPPER
1217	3-682-419-11	o HOLDER, P. C. B
1218	3-688-814-01	s CAP, SWITCH
1219	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T
1220	3-717-323-01	o COVER, METER LED
1221	3-717-374-01	o FRAME (23X12), ORNAMENTAL, SW
1222	3-717-375-01	o FRAME (18X12), ORNAMENTAL, SW
1223	3-717-382-01	s KNOB, LEVER SW
1224	3-717-613-01	o PLATE, ORNAMENTAL, LSW
1225	3-717-614-01	o LABEL, C-LOCK OUT
1226	3-717-615-01	o SPRING
1227	3-717-616-01	o SPRING
1228	3-717-617-01	o SHAFT, SC GUIDE
1229	3-717-618-01	o GUIDE (LEFT), SC
1230	3-717-619-01	o GUIDE (RIGHT), SC
1231	3-717-620-01	o PLATE, OUT, C-LOCK
1232	3-717-621-03	o PLATE, INDICATION, SC GUIDE
1233	3-717-672-01	o STOPPER, KY

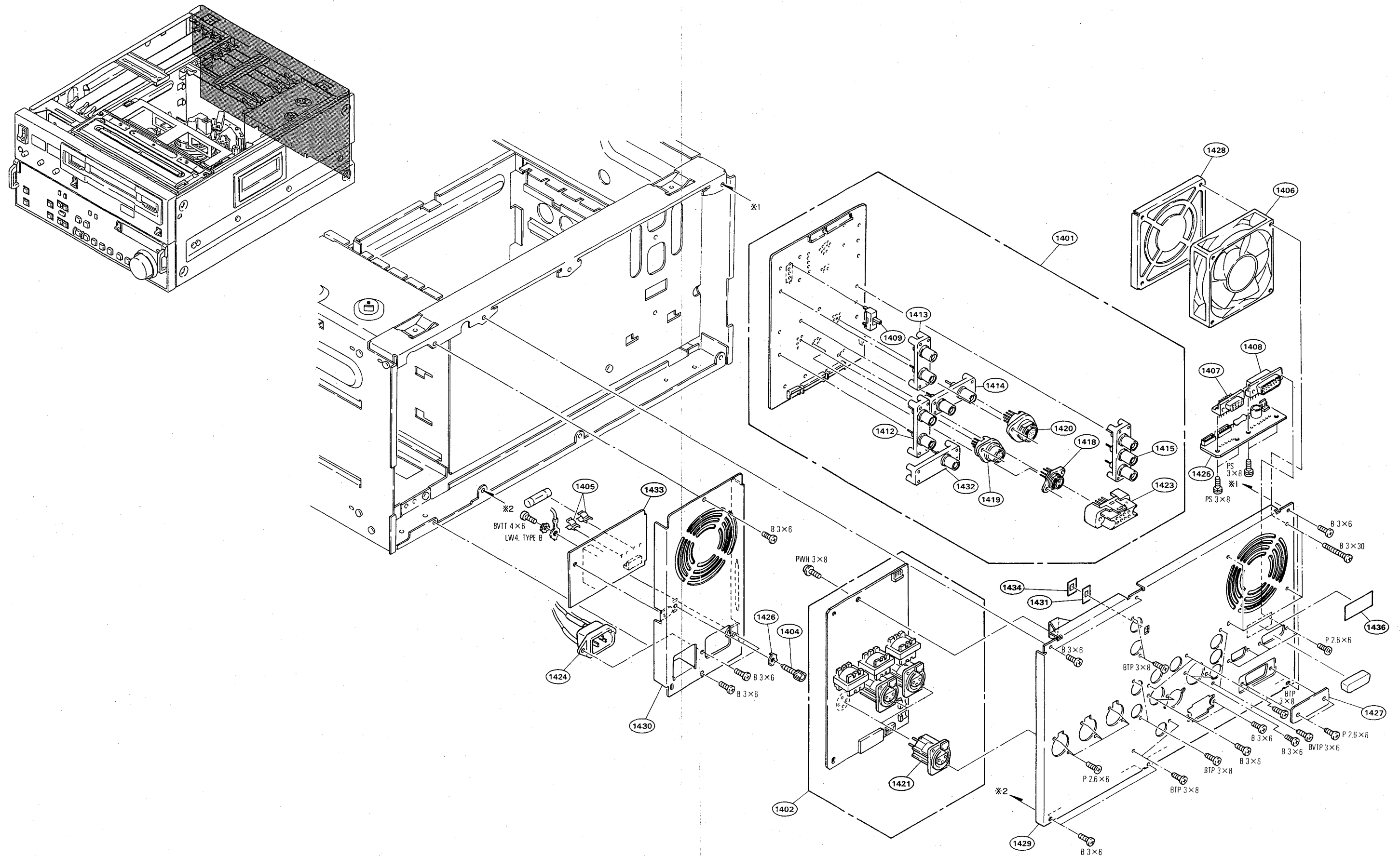
FUNCTION CONTROL PANEL BLOCK

No.	Part No.	SP Description
1301	A-8262-307-A	o PANEL ASSY, KEY
1302	A-8271-182-A	o MOUNTED CIRCUIT BOARD, KY-210B
1303	A-6734-253-A	o DIAL BLOCK ASSY, SERCH
1304	X-2124-627-1	o SHAFT SUB ASSY, MAIN
1305	1-633-548-12	o PRINTED CIRCUIT BOARD, PTC-39
1306	2-124-690-01	o GUIDE, LOCK IN
1307	2-124-691-01	s ROLLER
1308	2-124-692-01	o SPRING, COMPRESSION
1309	2-124-693-02	s PLATE
1310	2-124-694-02	o PLATE, CLUTCH
1311	2-124-695-01	o PLATE, CUSHION
1312	2-124-696-01	o PROTECTOR, PTC
1313	2-143-601-01	s RING, FG
1314	2-143-602-03	o CAM, SD
1315	2-143-603-01	o ARM, RETURN
1316	2-143-604-01	o GUIDE, LOCK OUT
1317	2-143-613-01	s SPRING, TORSION
1318	3-171-532-02	o PROTECTOR, KY
1319	3-660-828-00	o HOLDER (9), PC BOARD
1320	3-668-008-02	s PUSH BUTTON (3X5)
1321	3-668-009-02	s PIN, PUSH BUTTON
1322	3-668-012-00	s RUBBER, DIAL KNOB
1323	3-668-124-00	o HOLDER, LED
1324	3-701-443-21	s WASHER, POLY 5MM DIA., 0.50T
1325	3-717-370-01	o KNOB, DIAL
1326	3-717-374-01	o FRAME (23X12), ORNAMENTAL, SW
1328	3-717-377-01	o FRAME (SQUARE 17), ORNAMENTAL
1329	3-717-380-01	o GUARD, REC
1330	3-717-382-01	s KNOB, LEVER SW
1331	3-717-425-21	o HANDLE
1332	3-717-557-01	o PLATE, KNOB
1333	3-717-613-01	o PLATE, ORNAMENTAL, LSW
1336	3-718-681-01	s PUSH BUTTON
1339	4-309-349-00	s SPRING, COIL
1340	4-866-613-00	s SPRING, COMPRESSION
1341	3-718-664-01	s KEY TOP
1342	3-718-681-11	s PUSH BUTTON
1343	3-718-682-01	s PUSH BUTTON

Function control panel block



Rear panel block



No.	Part No.	SP Description
1401	A-6713-451-A	o MOUNTED CIRCUIT BOARD, CP-166A
1402	A-6713-452-A	o MOUNTED CIRCUIT BOARD, CP-167A
1404	X-2068-004-0	s TERMINAL ASSY
1405	1-533-189-11	s HOLDER, FUSE
1406	1-541-431-31	s FAN, DC "FAN"
1407	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
1408	1-566-319-11	o CONNECTOR, D-SUB 15P, FEMALE
1409	1-570-157-51	s SWITCH, SLIDE
1412	1-573-580-11	s CONNECTOR, BNC FEMALE
1413	1-573-581-11	s CONNECTOR, BNC FEMALE
1414	1-573-582-11	s CONNECTOR, BNC FEMALE
1415	1-573-584-11	s CONNECTOR, BNC FEMALE
1418	1-573-590-12	s CONNECTOR, CIRCULAR 4P, FEMALE
1419	1-573-591-11	s CONNECTOR, CIRCULAR 7P, FEMALE
1420	1-573-592-11	s CONNECTOR, CIRCULAR 12P, FEMALE
1421	1-573-593-11	s CONNECTOR, XLR 3P, MALE
1423	1-573-602-11	s CONNECTOR, 8P (MONITOR), FEMALE
1424	1-580-375-21	o INLET, AC 3P, MALE
1425	1-640-048-21	o PRINTED CIRCUIT BOARD, RM-93A
1426	2-068-008-00	s WASHER
1427	3-171-451-01	o PANEL, OP
1428	3-171-452-02	o COVER, FAN
1429	3-171-530-31	o PANEL, CONNECTOR
1430	3-171-531-01	o PANEL, POWER
1431	3-717-394-03	o PLATE (SMALL), ORNAMENTAL, SW
1432	1-573-583-11	s CONNECTOR, BNC FEMALE
1433	1-641-145-12	o PRINTED CIRCUIT BOARD, AC-133
1434	3-173-384-01	o SPACER, ORNAMENTAL PLATE
1436	3-176-091-01	o LABEL (TBC REMOTE, ENGLISH)

18-3. ELECTRICAL PARTS LIST

AC-133 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-641-145-12	o PRINTED CIRCUIT BOARD, AC-133
2pcs	1-533-189-11	s HOLDER, FUSE
1pc	3-701-947-18	s LABEL (T4A), FUSE
C1	△1-136-185-00	s FILM 0.22uF 20% 250V
C2	△1-161-741-00	s CERAMIC 1000PF 10% 400V
C3	△1-161-741-00	s CERAMIC 1000PF 10% 400V
C4	△1-161-740-00	s CERAMIC 470PF 10% 400V
C5	△1-161-741-00	s CERAMIC 1000PF 10% 400V
C6	△1-161-741-00	s CERAMIC 1000PF 10% 400V
C7	△1-161-740-00	s CERAMIC 470PF 10% 400V
CN998	△1-564-241-00	o CONNECTOR 4P, MALE
CN999	△1-564-241-00	o CONNECTOR 4P, MALE
F1	△1-532-350-00	s FUSE 4A 250V
R1	△1-260-135-11	s CARBON 1M 5% 1/2W

AU-148AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-472-A	o MOUNTED CIRCUIT BOARD, AU-148AP
1pc	3-171-456-02	o SHEET (S), CARD
1pc	3-171-485-02	o GUARD, EDGE
1pc	3-173-739-03	o SHIELD (B), AU
1pc	7-621-759-45	s SCREW +PSW 2.6X6
2pcs	2-251-622-11	s LEVER, PC BOARD
C105	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C106	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C107	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C108	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C109	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C111	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C112	1-163-023-00	s CERAMIC, CHIP 0.015uF 5% 50V
C113	1-126-101-11	s ELECT 100uF 20% 16V
C114	1-124-907-11	s ELECT 10uF 20% 50V
C115	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C116	1-130-481-00	s MYLAR 0.0068uF 5% 50V
C117	1-126-233-11	s ELECT 22uF 20% 50V
C118	1-126-233-11	s ELECT 22uF 20% 50V
C119	1-126-233-11	s ELECT 22uF 20% 50V
C120	1-130-487-00	s MYLAR 0.022uF 5% 50V
C121	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C122	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C123	1-130-487-00	s MYLAR 0.022uF 5% 50V
C124	1-130-487-00	s MYLAR 0.022uF 5% 50V
C125	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C126	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C127	1-130-487-00	s MYLAR 0.022uF 5% 50V
C128	1-130-487-00	s MYLAR 0.022uF 5% 50V
C129	1-130-487-00	s MYLAR 0.022uF 5% 50V
C130	1-130-487-00	s MYLAR 0.022uF 5% 50V
C131	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C132	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C133	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C134	1-130-473-00	s MYLAR 0.0015uF 5% 50V
C135	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C136	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C137	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C138	1-124-907-11	s ELECT 10uF 20% 50V
C139	1-164-182-11	s CERAMIC, CHIP 3300PF 10% 100V
C201	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C202	1-130-483-00	s MYLAR 0.01uF 5% 50V
C203	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C204	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C205	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C206	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C207	1-124-907-11	s ELECT 10uF 20% 50V
C208	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C209	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C210	1-124-925-11	s ELECT 2.2uF 20% 100V
C212	1-124-907-11	s ELECT 10uF 20% 50V
C213	1-136-684-11	s FILM 0.0022uF 2% 100V
C214	1-136-684-11	s FILM 0.0022uF 2% 100V
C215	1-136-682-11	s FILM 0.0039uF 2% 100V
C216	1-131-345-00	s TANTALUM 0.47uF 10% 35V
C217	1-130-497-00	s MYLAR 0.15uF 5% 50V
C218	1-130-738-00	s FILM 0.015uF 1% 100V
C219	1-130-499-00	s MYLAR 0.22uF 5% 50V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

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Ref. No. or Q'ty	Part No.	SP Description
C220	1-163-833-00	s CERAMIC, CHIP 0.068uF 25V
C221	1-130-765-00	s FILM 0.056uF 2% 100V
C222	1-136-683-11	s FILM 0.0056uF 2% 100V
C223	1-130-736-11	s FILM 0.01uF 1% 100V
C224	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C225	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C226	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C227	1-124-907-11	s ELECT 10uF 20% 50V
C228	1-130-478-00	s MYLAR 0.0039uF 5% 50V
C229	1-124-477-11	s ELECT 47uF 20% 25V
C230	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C231	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C232	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C233	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C234	1-124-477-11	s ELECT 47uF 20% 25V
C235	1-130-483-00	s MYLAR 0.01uF 5% 50V
C236	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C243	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C244	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C245	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C246	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C247	1-130-478-00	s MYLAR 0.0039uF 5% 50V
C248	1-124-925-11	s ELECT 2.2uF 20% 100V
C249	1-124-925-11	s ELECT 2.2uF 20% 100V
C336	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C501	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C502	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C503	1-124-477-11	s ELECT 47uF 20% 25V
C504	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C505	1-124-477-11	s ELECT 47uF 20% 25V
C506	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C507	1-124-477-11	s ELECT 47uF 20% 25V
C508	1-126-101-11	s ELECT 100uF 20% 16V
C509	1-126-101-11	s ELECT 100uF 20% 16V
C510	1-124-477-11	s ELECT 47uF 20% 25V
C511	1-124-477-11	s ELECT 47uF 20% 25V
C512	1-126-101-11	s ELECT 100uF 20% 16V
C513	1-126-101-11	s ELECT 100uF 20% 16V
CN2	1-506-468-11	s CONNECTOR 3P, MALE
CN111	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
D103	8-719-123-85	s DIODE 1SS304
D104	8-719-123-85	s DIODE 1SS304
D201	8-719-941-23	s DIODE DA204U
D202	8-719-941-23	s DIODE DA204U
D204	8-719-941-23	s DIODE DA204U
D206	8-719-941-23	s DIODE DA204U
D207	8-719-941-23	s DIODE DA204U
D208	8-719-941-23	s DIODE DA204U
D209	8-719-123-85	s DIODE 1SS304
IC101	8-759-711-53	s IC NJM2068D-D
IC102	8-759-711-53	s IC NJM2068D-D
IC103	8-759-711-53	s IC NJM2068D-D
IC104	8-759-711-53	s IC NJM2068D-D
IC201	8-759-981-90	s IC NJM4558D-D
IC202	8-759-981-90	s IC NJM4558D-D
IC203	8-759-981-90	s IC NJM4558D-D
IC204	8-752-018-80	s IC CX20188
IC205	8-759-745-60	s IC NJM4560D

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Ref. No. or Q'ty	Part No.	SP Description
IC206	8-759-701-21	s IC NJM5532D-D
IC207	8-759-701-21	s IC NJM5532D-D
IC503	8-759-982-21	s IC RC78L05A
IC504	8-759-982-44	s IC RC79L05A
L501	1-410-470-11	s INDUCTOR 10uH
LV101	1-410-934-21	s COIL, VAR 7.1uH
Q105	8-729-109-44	s TRANSISTOR 2SK94
Q106	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q107	8-729-209-07	s TRANSISTOR 2SC4213-B
Q108	8-729-209-07	s TRANSISTOR 2SC4213-B
Q109	8-729-209-07	s TRANSISTOR 2SC4213-B
Q110	8-729-209-07	s TRANSISTOR 2SC4213-B
Q111	8-729-209-07	s TRANSISTOR 2SC4213-B
Q112	8-729-209-07	s TRANSISTOR 2SC4213-B
Q201	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q202	8-729-109-44	s TRANSISTOR 2SK94
Q205	8-729-203-30	s TRANSISTOR 2SJ106Y
Q206	8-729-109-44	s TRANSISTOR 2SK94
Q207	8-729-209-07	s TRANSISTOR 2SC4213-B
Q208	8-729-209-07	s TRANSISTOR 2SC4213-B
Q209	8-729-118-58	s TRANSISTOR 2SK852-X4
Q210	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q211	8-729-118-58	s TRANSISTOR 2SK852-X4
Q212	8-729-905-12	s TRANSISTOR DTA144EU
Q501	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q502	8-729-805-25	s TRANSISTOR 2SB1121-S
R110	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R111	1-249-393-11	s CARBON 10 5% 1/4W
R113	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R114	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R116	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R117	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R118	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R119	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R120	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R121	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R122	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R123	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R124	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R125	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R126	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R127	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R128	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R129	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R130	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R131	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R132	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R133	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R134	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R135	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R136	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R137	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R138	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R139	1-215-473-00	s METAL 150K 1% 1/6W
R140	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R142	1-215-471-00	s METAL 120K 1% 1/6W
#R143	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

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Ref. No. or Q'ty	Part No.	SP Description
#R144	1-215-485-11	s METAL 470k 1% 1/4W
R145	1-215-479-00	s METAL 270K 1% 1/6W
R146	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
#R147	1-216-692-11	s METAL, CHIP 51K 0.5% 1/10W
#R148	1-215-467-00	s METAL 82K 1% 1/6W
R149	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R150	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R151	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R152	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R153	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R154	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R155	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R156	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R157	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R158	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R159	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R161	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R162	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R201	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R202	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R203	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R204	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R205	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R208	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R209	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R210	1-216-622-11	s METAL, CHIP 62 0.5% 1/10W
R211	1-216-622-11	s METAL, CHIP 62 0.5% 1/10W
R212	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R213	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R214	1-216-652-11	s METAL, CHIP 1.1K 0.5% 1/10W
R215	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R216	1-216-676-11	s METAL, CHIP 11K 0.5% 1/10W
R217	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R218	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R219	1-215-493-00	s METAL 1M 1% 1/6W
R220	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R221	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R222	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R223	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R224	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R225	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R226	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R227	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R228	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R229	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R230	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R231	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R232	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R233	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R234	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R235	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R236	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R237	1-216-674-11	s METAL, CHIP 9.1K 0.5% 1/10W
R238	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R239	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R240	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R241	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R243	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R244	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R245	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R246	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R247	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R248	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R249	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R250	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R251	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R252	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R256	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R262	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R263	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R264	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R265	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R266	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R267	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R268	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R269	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R270	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R271	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R272	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R273	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R274	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R275	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R276	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R277	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R279	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R280	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R281	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R282	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R283	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R284	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R285	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R288	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R301	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R343	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R501	1-249-411-11	s CARBON 330 5% 1/4W
R502	1-249-411-11	s CARBON 330 5% 1/4W
R503	1-216-031-00	s METAL, CHIP 180 5% 1/10W
R504	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R505	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R506	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
RV101	1-238-791-11	s RES, ADJ METAL 200K
RV102	1-238-786-11	s RES, ADJ METAL 5K
RV103	1-238-786-11	s RES, ADJ METAL 5K
RV104	1-238-788-11	s RES, ADJ METAL 20K
RV105	1-238-801-11	s RES, ADJ METAL 5K
RV106	1-238-788-11	s RES, ADJ METAL 20K
RV201	1-238-801-11	s RES, ADJ METAL 5K
RV203	1-238-805-11	s RES, ADJ METAL 100K
RV204	1-238-805-11	s RES, ADJ METAL 100K
RV301	1-238-804-11	s RES, ADJ METAL 50K
SW101	1-570-598-11	s SWITCH, DIP 4-CKT

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

AU-149AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-473-A	o MOUNTED CIRCUIT BOARD, AU-149AP
1pc	3-171-456-02	o SHEET (S), CARD
1pc	3-171-485-02	o GUARD, EDGE
1pc	3-173-739-03	o SHIELD (B), AU
1pc	7-621-759-45	s SCREW +PSW 2.6X6
2pcs	2-251-622-11	s LEVER, PC BOARD
C105	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C106	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C107	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C108	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C109	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C111	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C112	1-163-023-00	s CERAMIC, CHIP 0.015uF 5% 50V
C113	1-126-101-11	s ELECT 100uF 20% 16V
C114	1-124-907-11	s ELECT 10uF 20% 50V
C115	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C116	1-130-481-00	s MYLAR 0.0068uF 5% 50V
C117	1-126-233-11	s ELECT 22uF 20% 50V
C118	1-126-233-11	s ELECT 22uF 20% 50V
C119	1-126-233-11	s ELECT 22uF 20% 50V
C120	1-130-487-00	s MYLAR 0.022uF 5% 50V
C121	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C122	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C123	1-130-487-00	s MYLAR 0.022uF 5% 50V
C124	1-130-487-00	s MYLAR 0.022uF 5% 50V
C125	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C126	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C127	1-130-487-00	s MYLAR 0.022uF 5% 50V
C128	1-130-487-00	s MYLAR 0.022uF 5% 50V
C129	1-130-487-00	s MYLAR 0.022uF 5% 50V
C130	1-130-487-00	s MYLAR 0.022uF 5% 50V
C131	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C132	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C133	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C134	1-130-473-00	s MYLAR 0.0015uF 5% 50V
C135	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C136	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C137	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C138	1-124-907-11	s ELECT 10uF 20% 50V
C139	1-164-182-11	s CERAMIC, CHIP 3300PF 10% 100V
C201	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C202	1-130-483-00	s MYLAR 0.01uF 5% 50V
C203	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C204	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C205	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C206	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C207	1-124-907-11	s ELECT 10uF 20% 50V
C208	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C209	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C210	1-124-925-11	s ELECT 2.2uF 20% 100V
C212	1-124-907-11	s ELECT 10uF 20% 50V
C213	1-136-684-11	s FILM 0.0022uF 2% 100V
C214	1-136-684-11	s FILM 0.0022uF 2% 100V
C215	1-136-682-11	s FILM 0.0039uF 2% 100V
C216	1-131-345-00	s TANTALUM 0.47uF 10% 35V
C217	1-130-497-00	s MYLAR 0.15uF 5% 50V
C218	1-130-738-00	s FILM 0.015uF 1% 100V
C219	1-130-499-00	s MYLAR 0.22uF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C220	1-163-833-00	s CERAMIC, CHIP 0.068uF 25V
C221	1-130-765-00	s FILM 0.056uF 2% 100V
C222	1-136-683-11	s FILM 0.0056uF 2% 100V
C223	1-130-736-11	s FILM 0.01uF 1% 100V
C224	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C225	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C226	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C227	1-124-907-11	s ELECT 10uF 20% 50V
C228	1-130-478-00	s MYLAR 0.0039uF 5% 50V
C229	1-124-477-11	s ELECT 47uF 20% 25V
C230	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C231	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C232	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C233	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C234	1-124-477-11	s ELECT 47uF 20% 25V
C235	1-130-483-00	s MYLAR 0.01uF 5% 50V
C236	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C243	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C244	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C245	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C246	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C247	1-130-478-00	s MYLAR 0.0039uF 5% 50V
C248	1-124-925-11	s ELECT 2.2uF 20% 100V
C249	1-124-925-11	s ELECT 2.2uF 20% 100V
C336	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C501	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C502	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C503	1-124-477-11	s ELECT 47uF 20% 25V
C504	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C505	1-124-477-11	s ELECT 47uF 20% 25V
C506	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C507	1-124-477-11	s ELECT 47uF 20% 25V
C508	1-126-101-11	s ELECT 100uF 20% 16V
C509	1-126-101-11	s ELECT 100uF 20% 16V
C510	1-124-477-11	s ELECT 47uF 20% 25V
C511	1-124-477-11	s ELECT 47uF 20% 25V
C512	1-126-101-11	s ELECT 100uF 20% 16V
C513	1-126-101-11	s ELECT 100uF 20% 16V
CN2	1-506-468-11	s CONNECTOR 3P, MALE
CN110	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
D103	8-719-123-85	s DIODE 1SS304
D104	8-719-123-85	s DIODE 1SS304
D201	8-719-941-23	s DIODE DA204U
D202	8-719-941-23	s DIODE DA204U
D204	8-719-941-23	s DIODE DA204U
D206	8-719-941-23	s DIODE DA204U
D207	8-719-941-23	s DIODE DA204U
D208	8-719-941-23	s DIODE DA204U
D209	8-719-123-85	s DIODE 1SS304
IC101	8-759-711-53	s IC NJM2068D-D
IC102	8-759-711-53	s IC NJM2068D-D
IC103	8-759-711-53	s IC NJM2068D-D
IC104	8-759-711-53	s IC NJM2068D-D
IC201	8-759-981-90	s IC NJM4558D-D
IC202	8-759-981-90	s IC NJM4558D-D
IC203	8-759-981-90	s IC NJM4558D-D
IC204	8-752-018-80	s IC CX20188
IC205	8-759-745-60	s IC NJM4560D

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

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Ref. No. or Q'ty	Part No.	SP Description
IC206	8-759-701-21	s IC NJM5532D-D
IC207	8-759-701-21	s IC NJM5532D-D
IC503	8-759-982-21	s IC RC78L05A
IC504	8-759-982-44	s IC RC79L05A
L501	1-410-470-11	s INDUCTOR 10uH
LV101	1-410-934-21	s COIL, VAR 7.1uH
Q105	8-729-109-44	s TRANSISTOR 2SK94
Q106	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q107	8-729-209-07	s TRANSISTOR 2SC4213-B
Q108	8-729-209-07	s TRANSISTOR 2SC4213-B
Q109	8-729-209-07	s TRANSISTOR 2SC4213-B
Q110	8-729-209-07	s TRANSISTOR 2SC4213-B
Q111	8-729-209-07	s TRANSISTOR 2SC4213-B
Q112	8-729-209-07	s TRANSISTOR 2SC4213-B
Q201	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q202	8-729-109-44	s TRANSISTOR 2SK94
Q205	8-729-203-30	s TRANSISTOR 2SJ106Y
Q206	8-729-109-44	s TRANSISTOR 2SK94
Q207	8-729-209-07	s TRANSISTOR 2SC4213-B
Q208	8-729-209-07	s TRANSISTOR 2SC4213-B
Q209	8-729-118-58	s TRANSISTOR 2SK852-X4
Q210	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q211	8-729-118-58	s TRANSISTOR 2SK852-X4
Q212	8-729-905-12	s TRANSISTOR DTA144EU
Q501	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q502	8-729-805-25	s TRANSISTOR 2SB1121-S
R110	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R111	1-249-393-11	s CARBON 10 5% 1/4W
R113	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R114	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R116	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R117	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R118	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R119	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R120	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R121	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R122	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R123	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R124	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R125	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R126	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R127	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R128	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R129	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R130	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R131	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R132	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R133	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R134	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R135	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R136	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R137	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R138	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R139	1-215-473-00	s METAL 150K 1% 1/6W
R140	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R141	1-215-477-00	s METAL 220K 1% 1/6W
R142	1-215-471-00	s METAL 120K 1% 1/6W

(AU-149AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
#R143	1-216-692-11	s METAL, CHIP 51K 0.5% 1/10W
#R144	1-215-459-00	s METAL 39K 1% 1/6W
R145	1-215-484-00	s METAL 430K 1% 1/6W
R146	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R147	1-216-695-11	s METAL, CHIP 68K 0.5% 1/10W
#R148	1-215-477-00	s METAL 220K 1% 1/6W
R149	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R150	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R151	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R152	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R153	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R154	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R155	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R156	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R157	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R158	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R159	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R161	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R162	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R201	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R202	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R203	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R204	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R205	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R208	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R209	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R210	1-216-622-11	s METAL, CHIP 62 0.5% 1/10W
R211	1-216-622-11	s METAL, CHIP 62 0.5% 1/10W
R212	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R213	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R214	1-216-652-11	s METAL, CHIP 1.1K 0.5% 1/10W
R215	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R216	1-216-676-11	s METAL, CHIP 11K 0.5% 1/10W
R217	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R218	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R219	1-215-493-00	s METAL 1M 1% 1/6W
R220	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R221	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R222	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R223	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R224	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R225	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R226	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R227	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R228	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R229	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R230	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R231	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R232	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R233	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R234	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R235	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R236	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R237	1-216-674-11	s METAL, CHIP 9.1K 0.5% 1/10W
R238	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R239	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R240	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R241	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R243	1-216-097-00	s METAL, CHIP 100K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(AU-149AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R244	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R245	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R246	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R247	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R248	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R249	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R250	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R251	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R252	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R256	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R262	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R263	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R264	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R265	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R266	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R267	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R268	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R269	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R270	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R271	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R272	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R273	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R274	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R275	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R276	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R277	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R279	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R280	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R281	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R282	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R283	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R284	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R285	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R288	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R301	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R343	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R501	1-249-411-11	s CARBON 330 5% 1/4W
R502	1-249-411-11	s CARBON 330 5% 1/4W
R503	1-216-031-00	s METAL, CHIP 180 5% 1/10W
R504	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R505	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R506	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
RV101	1-238-791-11	s RES, ADJ METAL 200K
RV102	1-238-786-11	s RES, ADJ METAL 5K
RV103	1-238-786-11	s RES, ADJ METAL 5K
RV104	1-238-788-11	s RES, ADJ METAL 20K
RV105	1-238-801-11	s RES, ADJ METAL 5K
RV106	1-238-788-11	s RES, ADJ METAL 20K
RV201	1-238-801-11	s RES, ADJ METAL 5K
RV203	1-238-805-11	s RES, ADJ METAL 100K
RV204	1-238-805-11	s RES, ADJ METAL 100K
RV301	1-238-804-11	s RES, ADJ METAL 50K
SW101	1-570-598-11	s SWITCH, DIP 4-CKT

AU-150A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-456-A	o MOUNTED CIRCUIT BOARD, AU-150A
1pc	3-171-485-02	o GUARD, EDGE
2pcs	2-251-622-11	s LEVER, PC BOARD
C6	1-126-101-11	s ELECT 100uF 20% 16V
C7	1-130-489-00	s MYLAR 0.033uF 5% 50V
C10	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C11	1-124-907-11	s ELECT 10uF 20% 50V
C202	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C203	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C204	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C501	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C502	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C503	1-124-477-11	s ELECT 47uF 20% 25V
C504	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C505	1-124-477-11	s ELECT 47uF 20% 25V
C508	1-126-101-11	s ELECT 100uF 20% 16V
C510	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C511	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C512	1-124-477-11	s ELECT 47uF 20% 25V
C513	1-126-101-11	s ELECT 100uF 20% 16V
CN1	1-506-468-11	s CONNECTOR 3P, MALE
CN109	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
D2	8-719-941-23	s DIODE DA204U
D3	8-719-941-23	s DIODE DA204U
IC4	8-759-153-69	s IC UPC4572C
IC202	8-757-991-00	s IC CX7991
IC203	8-757-991-00	s IC CX7991
L501	1-410-470-11	s INDUCTOR 10uH
L502	1-410-470-11	s INDUCTOR 10uH
Q201	8-729-117-32	s TRANSISTOR 2SC4177
Q203	8-729-117-32	s TRANSISTOR 2SC4177
Q204	8-729-117-32	s TRANSISTOR 2SC4177
Q205	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q207	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q208	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q209	8-729-117-32	s TRANSISTOR 2SC4177
Q210	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q213	8-729-905-12	s TRANSISTOR DTA144EU
Q214	8-729-905-12	s TRANSISTOR DTA144EU
Q215	8-729-905-12	s TRANSISTOR DTA144EU
Q216	8-729-905-12	s TRANSISTOR DTA144EU
Q217	8-729-905-12	s TRANSISTOR DTA144EU
Q218	8-729-905-18	s TRANSISTOR DTC144EU
Q221	8-729-905-12	s TRANSISTOR DTA144EU
Q222	8-729-905-18	s TRANSISTOR DTC144EU
Q501	8-729-106-68	s TRANSISTOR 2SC1615A-GP
R12	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R13	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R15	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R16	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R17	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R18	1-216-295-00	s METAL, CHIP 0
R22	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R24	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R27	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R28	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(AU-150A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R32	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R33	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R34	1-216-295-00	s METAL, CHIP 0
R44	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R201	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R202	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R203	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R204	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R205	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R207	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R208	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R209	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R211	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R212	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R213	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R215	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R216	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R220	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R222	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R223	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R224	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R225	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R226	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R227	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R228	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R229	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R230	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R231	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R501	1-249-411-11	s CARBON 330 5% 1/4W

CL-25 BOARD

Ref. No. or Q'ty	Part No.	SP Description
#1pc	1-640-170-13	o PRINTED CIRCUIT BOARD, CL-25
1pc	3-171-424-01	o HOLDER, SENSOR
C1	1-161-051-00	s CERAMIC 0.01uF 10% 50V
CN930	1-506-477-11	s CONNECTOR 12P, MALE
CN931	1-506-467-11	s CONNECTOR 2P, MALE
CN933	1-573-599-11	s CONNECTOR 5P, FEMALE
CN935	1-506-467-11	s CONNECTOR 2P, MALE
D1	8-719-938-07	s LED GL480, INFRARED
D2	8-719-938-07	s LED GL480, INFRARED
Q1	8-729-903-81	s PHOTOTRANSISTOR PT480
Q2	8-729-903-81	s PHOTOTRANSISTOR PT480
R1	1-249-414-11	s CARBON 560 5% 1/4W
R2	1-249-414-11	s CARBON 560 5% 1/4W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

CP-166A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-451-A	o MOUNTED CIRCUIT BOARD, CP-166A
C1	1-126-101-11	s ELECT 100uF 20% 16V
C3	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C4	1-126-101-11	s ELECT 100uF 20% 16V
C7	1-126-101-11	s ELECT 100uF 20% 16V
C8	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-126-101-11	s ELECT 100uF 20% 16V
C12	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C13	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C14	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C15	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C16	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C17	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C18	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN1	1-573-581-11	s CONNECTOR, BNC, FEMALE
CN6	1-573-583-11	s CONNECTOR, BNC, FEMALE
CN7	1-573-580-11	s CONNECTOR, BNC, FEMALE
CN8	1-573-582-11	s CONNECTOR, BNC, FEMALE
CN9	1-573-590-12	s CONNECTOR, CIRCULAR 4P, FEMALE
CN10	1-573-584-11	s CONNECTOR, BNC, FEMALE
CN11	1-573-592-11	s CONNECTOR, CIRCULAR 12P, FEMALE
CN12	1-573-591-11	s CONNECTOR, CIRCULAR 7P, FEMALE
CN13	1-573-602-11	s CONNECTOR 8P (MONITOR), FEMALE
CN650	1-506-490-21	s CONNECTOR 11P, MALE
CN652	1-506-481-11	s CONNECTOR 2P, MALE
CN653	1-506-489-11	s CONNECTOR 10P, MALE
CN654	1-506-493-11	s CONNECTOR 14P, MALE
CN655	1-506-483-21	s CONNECTOR 4P, MALE
IC1	8-752-052-73	s IC CXA1451M
IC2	8-752-052-73	s IC CXA1451M
IC3	8-752-052-73	s IC CXA1451M
IC4	8-759-982-05	s IC RC7805FA
L1	1-410-482-31	s INDUCTOR 100uH
L2	1-410-482-31	s INDUCTOR 100uH
Q1	8-729-117-32	s TRANSISTOR 2SC4177
R1	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R2	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R3	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R4	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R10	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R11	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R12	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R13	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R14	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R15	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R16	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R17	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R18	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R19	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R20	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
S1	1-570-157-51	s SWITCH, SLIDE

CP-167A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-452-A	o MOUNTED CIRCUIT BOARD, CP-167A
C101	1-124-907-11	s ELECT 10uF 20% 50V
C102	1-124-910-11	s ELECT 47uF 20% 50V
C103	1-124-473-11	s ELECT 1000uF 20% 10V
C104	1-124-907-11	s ELECT 10uF 20% 50V
C105	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C106	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C107	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C108	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C109	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C111	1-124-473-11	s ELECT 1000uF 20% 10V
C112	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C201	1-124-907-11	s ELECT 10uF 20% 50V
C202	1-124-910-11	s ELECT 47uF 20% 50V
C203	1-124-473-11	s ELECT 1000uF 20% 10V
C204	1-124-907-11	s ELECT 10uF 20% 50V
C205	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C206	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C207	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C208	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C209	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C210	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C211	1-124-473-11	s ELECT 1000uF 20% 10V
C212	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C302	1-124-119-00	s ELECT 330uF 20% 16V
C303	1-124-907-11	s ELECT 10uF 20% 50V
C304	1-124-473-11	s ELECT 1000uF 20% 10V
C305	1-124-907-11	s ELECT 10uF 20% 50V
C306	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C307	1-124-119-00	s ELECT 330uF 20% 16V
C308	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C309	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C311	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C312	1-124-907-11	s ELECT 10uF 20% 50V
C313	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C314	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C315	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C316	1-124-473-11	s ELECT 1000uF 20% 10V
C317	1-124-907-11	s ELECT 10uF 20% 50V
C318	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C319	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C501	1-124-925-11	s ELECT 2.2uF 20% 100V
C502	1-124-907-11	s ELECT 10uF 20% 50V
C503	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C504	1-124-925-11	s ELECT 2.2uF 20% 100V
C505	1-124-907-11	s ELECT 10uF 20% 50V
C506	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C507	1-124-907-11	s ELECT 10uF 20% 50V
CN601	1-506-481-11	s CONNECTOR 2P, MALE
CN602	1-506-485-11	s CONNECTOR 6P, MALE
CN603	1-506-484-11	s CONNECTOR 5P, MALE
CN607	1-573-593-11	s CONNECTOR, XLR 3P, MALE
CN608	1-573-593-11	s CONNECTOR, XLR 3P, MALE
CN609	1-573-593-11	s CONNECTOR, XLR 3P, MALE
D101	8-719-941-23	s DIODE DA204U
D102	8-719-123-82	s DIODE 1SS303-T1
D103	8-719-123-82	s DIODE 1SS303-T1

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(CP-167A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D201	8-719-941-23	s DIODE DA204U
D301	8-719-941-23	s DIODE DA204U
D302	8-719-123-82	s DIODE 1SS303-T1
D303	8-719-123-82	s DIODE 1SS303-T1
D304	8-719-123-85	s DIODE 1SS304
D305	8-719-123-85	s DIODE 1SS304
IC101	8-759-745-64	s IC NJM4560M
IC102	8-759-745-64	s IC NJM4560M
IC201	8-759-745-64	s IC NJM4560M
IC302	8-759-745-64	s IC NJM4560M
IC501	8-759-520-06	s IC XRA17809T
IC502	8-759-982-39	s IC RC7909FA
IC503	8-759-603-69	s IC M51957BL
Q102	8-729-180-93	s TRANSISTOR 2SD809-F
Q103	8-729-173-13	s TRANSISTOR 2SB731-F
Q104	8-729-143-63	s TRANSISTOR 2SJ132
Q105	8-729-143-63	s TRANSISTOR 2SJ132
Q202	8-729-180-93	s TRANSISTOR 2SD809-F
Q203	8-729-173-13	s TRANSISTOR 2SB731-F
Q204	8-729-143-63	s TRANSISTOR 2SJ132
Q205	8-729-143-63	s TRANSISTOR 2SJ132
Q302	8-729-180-93	s TRANSISTOR 2SD809-F
Q303	8-729-173-13	s TRANSISTOR 2SB731-F
Q304	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q305	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q306	8-729-143-63	s TRANSISTOR 2SJ132
Q307	8-729-143-63	s TRANSISTOR 2SJ132
Q308	8-729-143-63	s TRANSISTOR 2SJ132
Q309	8-729-118-58	s TRANSISTOR 2SK852-X4
Q310	8-729-118-58	s TRANSISTOR 2SK852-X4
Q311	8-729-143-63	s TRANSISTOR 2SJ132
R101	1-249-399-11	s CARBON 33 5% 1/4W
R102	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R103	1-249-391-11	s CARBON 6.8 5% 1/4W
R104	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R105	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R106	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R107	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R108	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R109	1-249-391-11	s CARBON 6.8 5% 1/4W
R110	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R111	1-216-629-11	s METAL, CHIP 120 0.5% 1/10W
R112	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R113	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R114	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R115	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R116	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R117	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R119	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R120	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R121	1-249-389-11	s CARBON 4.7 5% 1/4W
R122	1-249-399-11	s CARBON 33 5% 1/4W
R123	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R124	1-216-674-11	s METAL, CHIP 9.1K 0.5% 1/10W
R126	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R129	1-216-295-00	s METAL, CHIP 0
R130	1-216-295-00	s METAL, CHIP 0

(CP-167A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R132	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R201	1-249-399-11	s CARBON 33 5% 1/4W
R202	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R203	1-249-391-11	s CARBON 6.8 5% 1/4W
R204	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R205	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R206	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R207	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R208	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R209	1-249-391-11	s CARBON 6.8 5% 1/4W
R210	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R211	1-216-629-11	s METAL, CHIP 120 0.5% 1/10W
R212	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R213	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R214	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R215	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R216	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R217	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R219	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R220	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R222	1-249-399-11	s CARBON 33 5% 1/4W
R223	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R224	1-216-674-11	s METAL, CHIP 9.1K 0.5% 1/10W
R226	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R229	1-216-295-00	s METAL, CHIP 0
R230	1-216-295-00	s METAL, CHIP 0
R231	1-249-389-11	s CARBON 4.7 5% 1/4W
R232	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R301	1-249-399-11	s CARBON 33 5% 1/4W
R302	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R303	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R304	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R305	1-249-391-11	s CARBON 6.8 5% 1/4W
R306	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R307	1-249-391-11	s CARBON 6.8 5% 1/4W
R308	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R309	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R310	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R311	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R312	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R313	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R314	1-249-399-11	s CARBON 33 5% 1/4W
R315	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R316	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R317	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R318	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R319	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R320	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R321	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R322	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R323	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R324	1-249-389-11	s CARBON 4.7 5% 1/4W
R326	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R327	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R331	1-216-295-00	s METAL, CHIP 0
R332	1-216-295-00	s METAL, CHIP 0
R333	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R334	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R335	1-216-121-00	s METAL, CHIP 1M 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(CP-167A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R336	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R337	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R338	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R501	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R502	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R503	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
T101	1-427-586-11	s TRANSFORMER, INPUT/OUTPUT
T201	1-427-586-11	s TRANSFORMER, INPUT/OUTPUT
T301	1-427-586-11	s TRANSFORMER, INPUT/OUTPUT

DE-15 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-622-606-11	o PRINTED CIRCUIT BOARD, DE-15
1pc	1-807-683-11	s DME
C1	1-126-101-11	s ELECT 100uF 20% 16V

DP-138B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-040-31	o PRINTED CIRCUIT BOARD, DP-138A
1pc	3-171-415-01	o HOLDER, METER LED
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN490	1-506-481-11	o CONNECTOR 2P, MALE
D1	8-719-820-27	s LED TLY-256, YEL
D2	8-719-820-27	s LED TLY-256, YEL
D3	8-719-820-27	s LED TLY-256, YEL
D4	8-719-820-27	s LED TLY-256, YEL
D5	8-719-820-27	s LED TLY-256, YEL
D6	8-719-820-27	s LED TLY-256, YEL
D7	8-719-820-27	s LED TLY-256, YEL
D8	8-719-820-27	s LED TLY-256, YEL
R1	1-249-409-11	s CARBON 220 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W
R3	1-249-409-11	s CARBON 220 5% 1/4W
R4	1-249-409-11	s CARBON 220 5% 1/4W

DP-139B BOARD

Ref. No. or Q'ty	Part No.	SP Description
All of component parts on the DP-139B board are supplied together when you order KY-210B board.		
D1060	8-719-942-19	s LED LB402VK, RED
D1061	8-719-942-19	s LED LB402VK, RED
D1062	8-719-942-19	s LED LB402VK, RED
D1063	8-719-942-19	s LED LB402VK, RED
S1037	1-552-539-00	s SWITCH, PUSH

DP-159B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-042-31	o PRINTED CIRCUIT BOARD, DP-159A
1pc	3-717-323-01	o COVER, METER LED
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN514	1-506-481-11	o CONNECTOR 2P, MALE
D1	8-719-820-27	s LED TLY-256, YEL
D2	8-719-820-27	s LED TLY-256, YEL
D3	8-719-820-27	s LED TLY-256, YEL
D4	8-719-820-27	s LED TLY-256, YEL
R1	1-249-409-11	s CARBON 220 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W

NOTE: For the # marked in the following parts list, refer to Section 19 "CHANGED PARTS".

DR-118A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6717-623-B	o MOUNTED CIRCUIT BOARD, DR-118A
1pc	3-171-393-01	o SUPPORT, DR
1pc	3-176-490-01	o HEAT SINK (1), DR
1pc	3-176-491-01	o HEAT SINK (2), DR
1pc	3-701-822-00	o HOLDER, WIRE
1pc	7-621-759-45	s SCREW +PSW 2.6X6
1pc	7-682-903-11	s SCREW +PWH 3X6
1pc	3-660-978-00	s SHEET, HEAT RESISTING
3pcs	7-682-903-11	s SCREW +PWH 3X6
1pc	3-171-493-01	o HEAT SINK (A)
4pcs	4-911-232-01	s SHEET, INSULATING
3pcs	3-660-978-00	s SHEET, HEAT RESISTING
4pcs	7-682-548-04	s SCREW +B 3X8
3pcs	2-371-561-00	s BUSHING (P), INSULATING
4pcs	7-682-548-04	s SCREW +B 3X8
1pc	1-535-894-11	o TAB, FASTON
3pcs	3-314-051-00	o CLAMP, LEAD
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C40	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C51	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C52	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C53	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C101	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
#C103	1-124-478-11	s ELECT 100uF 20% 25V
C104	1-124-907-11	s ELECT 10uF 20% 50V
C108	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C111	1-124-907-11	s ELECT 10uF 20% 50V
C121	1-124-907-11	s ELECT 10uF 20% 50V
C151	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C152	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C153	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C154	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C155	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C201	1-126-233-11	s ELECT 22uF 20% 50V
C204	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C205	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C206	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C208	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C209	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C210	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C212	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C213	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C221	1-124-477-11	s ELECT 47uF 20% 25V
C222	1-124-477-11	s ELECT 47uF 20% 25V
C251	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C252	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C253	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C257	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C261	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C267	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C271	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C272	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C273	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C277	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C281	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C282	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C283	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C287	1-164-232-11	s CERAMIC 0.01uF 10% 100V

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C301	1-124-482-11	s ELECT 33uF 20% 35V
C302	1-164-161-11	s CERAMIC, CHIP 0.0022uF 10% 100V
C303	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C304	1-124-903-11	s ELECT 1uF 20% 50V
C305	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C306	1-163-833-00	s CERAMIC, CHIP 0.068uF 25V
C307	1-163-833-00	s CERAMIC, CHIP 0.068uF 25V
C308	1-163-833-00	s CERAMIC, CHIP 0.068uF 25V
C309	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C315	1-126-233-11	s ELECT 22uF 20% 50V
C316	1-124-903-11	s ELECT 1uF 20% 50V
C322	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C323	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C330	1-124-120-11	s ELECT 220uF 20% 25V
C401	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C402	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C403	1-131-388-00	s TANTALUM 68uF 10% 6.3V
C404	1-131-388-00	s TANTALUM 68uF 10% 6.3V
C405	1-124-907-11	s ELECT 10uF 20% 50V
C406	1-124-477-11	s ELECT 47uF 20% 25V
C407	1-126-233-11	s ELECT 22uF 20% 50V
C408	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C409	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C410	1-163-989-11	s CERAMIC, CHIP 0.033uF 10% 25V
C451	1-130-728-00	s FILM 0.0022uF 1% 100V
C452	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C453	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C454	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C455	1-124-477-11	s ELECT 47uF 20% 25V
C481	1-130-728-00	s FILM 0.0022uF 1% 100V
C482	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C483	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C484	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C485	1-124-477-11	s ELECT 47uF 20% 25V
C501	1-124-907-11	s ELECT 10uF 20% 50V
C502	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C503	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C504	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C505	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C510	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C511	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C551	1-126-101-11	s ELECT 100uF 20% 16V
C552	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C553	1-124-907-11	s ELECT 10uF 20% 50V
C554	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C555	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C556	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C557	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C558	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C559	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C560	1-124-907-11	s ELECT 10uF 20% 50V
C561	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C562	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C563	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C564	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C565	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C583	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C584	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C585	1-130-477-00	s MYLAR 0.0033uF 5% 50V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C586	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C587	1-124-907-11	s ELECT 10uF 20% 50V
C590	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C591	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C592	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C601	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C602	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C603	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C604	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C605	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C610	1-126-101-11	s ELECT 100uF 20% 16V
C651	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C652	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C653	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C654	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C655	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C656	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C657	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C901	1-126-101-11	s ELECT 100uF 20% 16V
C902	1-124-480-11	s ELECT 470uF 20% 25V
C903	1-126-101-11	s ELECT 100uF 20% 16V
C904	1-126-101-11	s ELECT 100uF 20% 16V
C905	1-124-480-11	s ELECT 470uF 20% 25V
C906	1-124-907-11	s ELECT 10uF 20% 50V
C907	1-124-907-11	s ELECT 10uF 20% 50V
C908	1-124-907-11	s ELECT 10uF 20% 50V
C909	1-124-907-11	s ELECT 10uF 20% 50V
C951	1-124-907-11	s ELECT 10uF 20% 50V
C952	1-163-833-00	s CERAMIC, CHIP 0.068uF 25V
C953	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C954	1-124-120-11	s ELECT 220uF 20% 25V
C956	1-124-120-11	s ELECT 220uF 20% 25V
C957	1-163-023-00	s CERAMIC, CHIP 0.015uF 5% 50V
C958	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C959	1-124-903-11	s ELECT 1uF 20% 50V
C960	1-124-482-11	s ELECT 33uF 20% 35V
C961	1-124-907-11	s ELECT 10uF 20% 50V
CN1A	1-506-468-11	s CONNECTOR 3P, MALE
CN1B	1-506-468-11	s CONNECTOR 3P, MALE
CN3A	1-506-467-11	s CONNECTOR 2P, MALE
CN3B	1-506-467-11	s CONNECTOR 2P, MALE
CN5A	1-506-467-11	s CONNECTOR 2P, MALE
CN5B	1-506-467-11	s CONNECTOR 2P, MALE
CN6A	1-506-467-11	s CONNECTOR 2P, MALE
CN6B	1-506-467-11	s CONNECTOR 2P, MALE
CN7A	1-506-467-11	s CONNECTOR 2P, MALE
CN7B	1-506-467-11	s CONNECTOR 2P, MALE
CN8A	1-506-468-11	s CONNECTOR 3P, MALE
CN8B	1-506-468-11	s CONNECTOR 3P, MALE
CN9A	1-506-467-11	s CONNECTOR 2P, MALE
CN9B	1-506-467-11	s CONNECTOR 2P, MALE
CN300	1-564-209-00	o CONNECTOR, IL-S 10P, MALE
CN302	1-573-601-11	o CONNECTOR 64P, MALE
CN305	1-506-473-11	s CONNECTOR 8P, MALE
CN306	1-506-474-11	s CONNECTOR 9P, MALE
CN307	1-506-477-11	s CONNECTOR 12P, MALE
CN309	1-506-469-11	s CONNECTOR 4P, MALE
CN314	1-506-470-11	s CONNECTOR 5P, MALE

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
CN315	1-506-468-11	s CONNECTOR 3P, MALE
CN316	1-506-472-11	s CONNECTOR 7P, MALE
CN317	1-506-467-11	s CONNECTOR 2P, MALE
CN318	1-506-467-11	s CONNECTOR 2P, MALE
CN319	1-506-467-11	s CONNECTOR 2P, MALE
CN320	1-506-468-11	s CONNECTOR 3P, MALE
CN321	1-562-708-11	o CONNECTOR, FPC 13P
CN322	1-562-708-11	o CONNECTOR, FPC 13P
CN323	1-506-468-11	s CONNECTOR 3P, MALE
CN324	1-506-469-11	s CONNECTOR 4P, MALE
CN325	1-506-469-11	s CONNECTOR 4P, MALE
CN360	1-506-480-11	s CONNECTOR 15P, MALE
CN151	1-526-652-21	s SOCKET, IC 8P
CN152	1-526-652-21	s SOCKET, IC 8P
CN153	1-526-652-21	s SOCKET, IC 8P
D101	8-719-200-02	s DIODE 10E2
D102	8-719-200-02	s DIODE 10E2
D111	8-719-200-02	s DIODE 10E2
D112	8-719-200-02	s DIODE 10E2
D121	8-719-200-02	s DIODE 10E2
D122	8-719-200-02	s DIODE 10E2
D301	8-719-123-85	s DIODE 1SS304
D311	8-719-911-19	s DIODE 1SS119
D312	8-719-911-19	s DIODE 1SS119
D401	8-719-123-85	s DIODE 1SS304
D402	8-719-123-85	s DIODE 1SS304
D403	8-719-123-85	s DIODE 1SS304
D551	8-719-123-82	s DIODE 1SS303-T1
D581	8-719-123-82	s DIODE 1SS303-T1
D951	8-719-903-06	s DIODE ERC84-009
D952	8-719-106-08	s DIODE RD6.2M-B2
F1	△1-532-783-21	s FUSE 5A 125V
F2	△1-532-780-21	s FUSE 2.5A 125V
IC1	8-759-938-68	s IC CXD1095Q
IC5	8-759-600-34	s IC M54532P
IC6	8-759-645-23	s IC M54523P
IC51	8-752-330-61	s IC CXK1013P
IC52	8-752-330-61	s IC CXK1013P
IC53	8-752-330-61	s IC CXK1013P
IC54	8-759-946-00	s IC MB88341PFV
IC101	8-759-205-56	s IC TA7267P
IC111	8-759-205-56	s IC TA7267P
IC112	8-759-205-56	s IC TA7267P
IC151	8-759-908-17	s IC TL082CPS
IC152	8-759-700-07	s IC NJM2903M
IC201	8-759-908-17	s IC TL082CPS
IC251	8-759-106-02	s IC UPC4570G2
IC252	8-759-700-07	s IC NJM2903M
IC253	8-759-106-02	s IC UPC4570G2
IC271	8-759-106-02	s IC UPC4570G2
IC272	8-759-700-07	s IC NJM2903M
IC273	8-759-106-02	s IC UPC4570G2
IC301	8-759-234-03	s IC TA8424F
IC302	8-759-908-17	s IC TL082CPS
IC304	8-759-925-80	s IC SN74HC14NS
IC305	8-759-700-07	s IC NJM2903M
IC401	8-743-914-00	s IC BX3914

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC402	8-759-106-02	s IC UPC4570G2
IC403	8-759-927-46	s IC SN74HC00NS
IC404	8-759-300-71	s IC HD14053BFP
IC405	8-759-300-71	s IC HD14053BFP
IC451	8-759-800-72	s IC LA7205
IC481	8-759-800-72	s IC LA7205
IC501	8-759-908-17	s IC TL082CPS
IC551	8-759-908-17	s IC TL082CPS
IC552	8-759-908-92	s IC TL084CNS
IC553	8-759-700-07	s IC NJM2903M
IC554	8-759-700-07	s IC NJM2903M
IC601	8-759-908-17	s IC TL082CPS
IC602	8-759-008-67	s IC MC14066BF
IC651	8-759-908-17	s IC TL082CPS
IC652	8-759-008-67	s IC MC14066BF
IC901	8-759-982-13	s IC RC7812FA
IC951	8-759-929-26	s IC TL431CPS
IC952	8-759-100-94	s IC UPC358G2
IC953	8-759-700-07	s IC NJM2903M
IC954	8-759-100-94	s IC UPC358G2
L600	1-412-533-11	s INDUCTOR 47uH
L901	1-412-533-11	s INDUCTOR 47uH
L902	1-412-533-11	s INDUCTOR 47uH
L903	1-412-533-11	s INDUCTOR 47uH
L951	1-408-519-00	s COIL, CHOKE
Q101	8-729-807-50	s TRANSISTOR 2SD1623-R
Q102	8-729-101-07	s TRANSISTOR 2SB798
Q103	8-729-376-84	s TRANSISTOR 2SA768-G
Q201	8-729-807-50	s TRANSISTOR 2SD1623-R
Q202	8-729-101-07	s TRANSISTOR 2SB798
Q203	8-729-102-47	s TRANSISTOR 2SA1141-Q
Q204	8-729-102-57	s TRANSISTOR 2SC3012
Q205	8-729-159-65	s TRANSISTOR 2SD596-DV5
Q206	8-729-162-45	s TRANSISTOR 2SB624-T1BV5
Q207	8-729-102-47	s TRANSISTOR 2SA1141-Q
Q208	8-729-102-57	s TRANSISTOR 2SC3012
Q209	8-729-159-65	s TRANSISTOR 2SD596-DV5
Q210	8-729-162-45	s TRANSISTOR 2SB624-T1BV5
Q211	8-729-102-47	s TRANSISTOR 2SA1141-Q
Q212	8-729-102-57	s TRANSISTOR 2SC3012
Q401	8-729-905-18	s TRANSISTOR DTC144EU
Q402	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q404	8-729-905-18	s TRANSISTOR DTC144EU
Q501	8-729-159-65	s TRANSISTOR 2SD596-DV5
Q502	8-729-141-83	s TRANSISTOR 2SA473-Y
Q503	8-729-101-07	s TRANSISTOR 2SB798
Q504	8-729-807-50	s TRANSISTOR 2SD1623-R
Q505	8-729-376-84	s TRANSISTOR 2SA768-G
Q551	8-729-209-07	s TRANSISTOR 2SC4213-B
Q951	8-729-117-32	s TRANSISTOR 2SC4177
Q952	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q953	8-729-142-68	s TRANSISTOR 2SJ143
Q954	8-729-101-07	s TRANSISTOR 2SB798
R2	1-216-295-00	s METAL, CHIP 0
R3	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R4	1-216-295-00	s METAL, CHIP 0
R5	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R6	1-216-097-00	s METAL, CHIP 100K 5% 1/10W

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R7	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R8	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R9	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R10	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R11	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R12	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R13	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R14	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R15	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R16	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R17	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R18	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R19	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R20	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R21	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R22	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R23	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R24	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R25	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R26	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R27	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R28	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R29	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R30	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R31	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R32	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R33	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R34	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R35	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R36	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R37	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R38	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R42	1-216-295-00	s METAL, CHIP 0
R46	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R51	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R52	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R53	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R54	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R55	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R56	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R101	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R102	△1-215-863-11	s METAL 100 5% 1W
R103	△1-215-868-00	s METAL 680 5% 1W
R104	△1-215-867-00	s METAL 470 5% 1W
R105	△1-216-385-11	s METAL 0.47 5% 3W
R106	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R107	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R108	△1-216-383-11	s METAL 0.33 5% 3W
R111	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R112	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R113	△1-216-383-11	s METAL 0.33 5% 3W
R121	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R122	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R123	△1-216-383-11	s METAL 0.33 5% 3W
R151	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R152	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R153	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R154	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R155	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R156	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R157	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R160	1-249-413-11	s CARBON 470 5% 1/4W
R201	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R202	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R203	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R204	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R205	△1-215-889-00	s METAL 330 5% 2W
R206	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R207	△1-215-889-00	s METAL 330 5% 2W
R208	△1-215-863-11	s METAL 100 5% 1W
R209	△1-215-863-11	s METAL 100 5% 1W
R210	△1-216-365-00	s METAL 0.47 5% 2W
R211	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R212	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R213	△1-215-863-11	s METAL 100 5% 1W
R214	△1-215-863-11	s METAL 100 5% 1W
R215	△1-216-365-00	s METAL 0.47 5% 2W
R216	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R217	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R218	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R219	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R220	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R221	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R251	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R252	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R253	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R255	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
#R256	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
#R257	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R258	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R259	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R260	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R261	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R262	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R263	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R265	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
#R266	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
#R267	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R268	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R269	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R271	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R272	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R273	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R275	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
#R276	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
#R277	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R278	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R279	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R280	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R281	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R282	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R283	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R285	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
#R286	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
#R287	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R288	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R289	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R291	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R292	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R293	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R294	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R301	1-216-031-00	s METAL, CHIP 180 5% 1/10W
R302	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R303	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R304	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R305	1-249-383-11	s CARBON 1.5 5% 1/4W
R306	1-249-383-11	s CARBON 1.5 5% 1/4W
R307	1-249-383-11	s CARBON 1.5 5% 1/4W
R308	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R309	△1-216-349-00	s METAL 1 5% 1W
R310	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R311	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R312	1-216-295-00	s METAL, CHIP 0
R314	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R315	1-216-295-00	s METAL, CHIP 0
R324	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R325	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R326	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R327	1-216-103-00	s METAL, CHIP 180K 5% 1/10W
R328	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R329	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R330	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R331	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R332	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R333	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R341	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R342	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R343	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R344	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
#R401	1-216-670-11	s METAL, CHIP 6.2K 0.5% 1/10W
R402	1-216-133-00	s METAL, CHIP 3.3M 5% 1/10W
R403	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R404	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R405	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R406	1-216-646-11	s METAL, CHIP 620 0.5% 1/10W
R407	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R408	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R409	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R410	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R411	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R412	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R413	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R414	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R415	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R416	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R451	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R452	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R481	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R482	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R501	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R502	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R503	△1-215-866-11	s METAL 330 5% 1W
R504	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R505	△1-216-383-11	s METAL 0.33 5% 3W
R506	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R507	△1-215-863-11	s METAL 100 5% 1W
R508	△1-215-863-11	s METAL 100 5% 1W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R509	1-216-365-00	s METAL, CHIP 0.47 5% 2W
R510	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R511	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R512	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R513	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R551	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R552	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R553	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R554	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R555	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R556	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R557	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R558	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R559	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R560	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R561	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R562	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R563	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R564	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R565	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R566	1-216-093-00	s METAL, CHIP 68K 5% 1/10W
R567	1-216-093-00	s METAL, CHIP 68K 5% 1/10W
R568	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R569	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R571	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R582	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R583	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R584	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R585	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R586	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R587	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R588	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R589	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R590	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R591	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R592	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R593	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R594	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R595	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R596	1-216-093-00	s METAL, CHIP 68K 5% 1/10W
R597	1-216-093-00	s METAL, CHIP 68K 5% 1/10W
R598	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R599	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R600	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R601	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R602	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R603	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R604	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R605	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R606	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R607	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R651	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R652	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R653	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R654	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R655	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R656	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R657	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R902	1-217-666-31	s RES 0

(DR-118A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R951	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R952	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R953	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R954	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R955	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R956	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R957	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R958	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R959	1-216-115-00	s METAL, CHIP 560K 5% 1/10W
R960	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R961	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R962	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R963	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R965	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R966	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R967	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R968	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R969	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R970	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R971	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R972	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R973	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R974	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R975	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R976	1-207-612-00	s WIREWOUND 0.1 10% 3W
R977	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R978	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R979	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R980	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R981	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

DS-31 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-167-11	o PRINTED CIRCUIT BOARD, DS-31
CN1	1-506-482-11	s CONNECTOR 3P, MALE
IC1	8-759-729-03	s IC NJM2903D
R1	1-215-456-00	s METAL 30K 1% 1/6W
R2	1-215-437-00	s METAL 4.7K 1% 1/6W
R3	1-215-419-00	s METAL 820 1% 1/6W
R4	1-215-469-00	s METAL 100K 1% 1/6W
R5	1-215-440-00	s METAL 6.2K 1% 1/6W
R6	1-215-487-00	s METAL 560K 1% 1/6W
R7	1-215-453-00	s METAL 22K 1% 1/6W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

DT-29AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8271-469-A	o MOUNTED CIRCUIT BOARD, DT-29AP
1pc	3-172-469-01	o CASE (A), DT SHIELD
1pc	3-172-470-01	o CASE (B), DT SHIELD
1pc	3-703-044-26	o LABEL, CAUTION
2pcs	1-533-217-31	s HOLDER, FUSE
2pcs	4-812-134-11	s RIVET NYLON, 3.5
C1	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C2	1-126-103-11	s ELECT 470uF 20% 16V
C3	1-126-103-11	s ELECT 470uF 20% 16V
C4	1-126-103-11	s ELECT 470uF 20% 16V
C5	1-126-103-11	s ELECT 470uF 20% 16V
C6	1-126-103-11	s ELECT 470uF 20% 16V
C8	1-124-903-11	s ELECT 1uF 20% 50V
C15	1-130-491-00	s MYLAR 0.047uF 5% 50V
C16	1-130-491-00	s MYLAR 0.047uF 5% 50V
C17	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C18	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C19	1-124-667-11	s ELECT 10uF 20% 100V
C20	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C21	1-124-667-11	s ELECT 10uF 20% 100V
C22	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C23	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C24	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C31	1-126-101-11	s ELECT 100uF 20% 16V
C32	1-126-101-11	s ELECT 100uF 20% 16V
C33	1-124-667-11	s ELECT 10uF 20% 100V
C34	1-124-667-11	s ELECT 10uF 20% 100V
CN390	1-506-476-11	s CONNECTOR 11P, MALE
CN391	1-506-473-11	s CONNECTOR 8P, MALE
D1	8-719-815-85	s DIODE 1S1585
D2	8-719-300-33	s DIODE RU-3AM
D3	8-719-300-33	s DIODE RU-3AM
D4	8-719-300-33	s DIODE RU-3AM
D5	8-719-300-33	s DIODE RU-3AM
D6	8-719-123-85	s DIODE 1SS304
D7	8-719-941-23	s DIODE DA204U
D8	8-719-941-23	s DIODE DA204U
D9	8-719-123-82	s DIODE 1SS303-T1
D11	8-719-123-82	s DIODE 1SS303-T1
D12	8-719-941-23	s DIODE DA204U
D13	8-719-941-23	s DIODE DA204U
F1	1-532-078-00	s FUSE 1A 250V
IC1	8-759-908-17	s IC TL082CPS
IC2	8-759-908-17	s IC TL082CPS
IC3	8-759-908-17	s IC TL082CPS
IC4	8-759-908-17	s IC TL082CPS
IC5	8-759-981-65	s IC LM2903M
IC6	8-759-929-26	s IC TL431CPS
L1	1-412-533-11	s INDUCTOR 47uH
L2	1-412-533-11	s INDUCTOR 47uH
L3	1-410-093-11	s INDUCTOR 33mH
L4	1-410-093-11	s INDUCTOR 33mH
L5	1-410-093-11	s INDUCTOR 33mH
L6	1-410-093-11	s INDUCTOR 33mH
L7	1-412-533-11	s INDUCTOR 47uH

(DT-29AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
L8	1-412-533-11	s INDUCTOR 47uH
Q1	8-729-101-68	s TRANSISTOR 2SC2654
Q2	8-729-101-68	s TRANSISTOR 2SC2654
Q3	8-729-105-97	s TRANSISTOR 2SA1156-2K
Q4	8-729-141-78	s TRANSISTOR 2SC3632-K
Q5	8-729-141-78	s TRANSISTOR 2SC3632-K
Q6	8-729-209-07	s TRANSISTOR 2SC4213-B
Q7	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q8	8-729-118-43	s TRANSISTOR 2SA1413-L
Q9	8-729-105-97	s TRANSISTOR 2SA1156-2K
Q10	8-729-141-78	s TRANSISTOR 2SC3632-K
Q11	8-729-141-78	s TRANSISTOR 2SC3632-K
Q12	8-729-209-07	s TRANSISTOR 2SC4213-B
Q13	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q14	8-729-118-43	s TRANSISTOR 2SA1413-L
Q15	8-729-106-67	s TRANSISTOR 2SD1615A-T1GQGP
R1	1-216-311-00	s METAL, CHIP 6.8 5% 1/10W
R2	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R3	1-216-311-00	s METAL, CHIP 6.8 5% 1/10W
R4	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R5	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R6	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R7	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R8	1-214-929-00	s METAL 470K 1% 1/2W
R9	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R10	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R11	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R12	1-214-924-00	s METAL 300K 1% 1/2W
R13	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R14	1-260-124-11	s CARBON 120K 5% 1/2W
R15	1-260-124-11	s CARBON 120K 5% 1/2W
R16	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R17	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R18	1-260-102-11	s CARBON 1.8K 5% 1/2W
R19	1-215-493-00	s METAL 1M 1% 1/6W
R20	1-215-493-00	s METAL 1M 1% 1/6W
R21	1-216-697-11	s METAL, CHIP 82K 0.5% 1/10W
R22	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R23	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R24	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R27	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R28	1-260-124-11	s CARBON 120K 5% 1/2W
R29	1-260-124-11	s CARBON 120K 5% 1/2W
R30	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R31	1-215-493-00	s METAL 1M 1% 1/6W
R32	1-215-493-00	s METAL 1M 1% 1/6W
R33	1-260-102-11	s CARBON 1.8K 5% 1/2W
R34	1-216-697-11	s METAL, CHIP 82K 0.5% 1/10W
R35	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R36	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R37	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R38	1-214-929-00	s METAL 470K 1% 1/2W
R39	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R40	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R41	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R42	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R43	1-214-924-00	s METAL 300K 1% 1/2W
R44	1-216-013-00	s METAL, CHIP 33 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(DT-29AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R45	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R46	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R47	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R48	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R49	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R50	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R52	1-216-694-11	s METAL, CHIP 62K 0.5% 1/10W
R53	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R54	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
T1	1-448-937-11	s TRANSFORMER, CONVERTER

DT-30 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8271-183-A	o MOUNTED CIRCUIT BOARD, DT-30
1pc	3-171-455-01	o PLATE (S), SHIELD, CARD
1pc	3-171-456-02	o SHEET (S), CARD
1pc	7-621-759-45	s SCREW +PSW 2.6X6
2pcs	2-251-622-11	s LEVER, PC BOARD
C1	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C2	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C3	1-124-477-11	s ELECT 47uF 20% 25V
C4	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C5	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C6	1-124-477-11	s ELECT 47uF 20% 25V
C7	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C8	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C9	1-124-477-11	s ELECT 47uF 20% 25V
C11	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C12	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C13	1-163-019-00	s CERAMIC, CHIP 0.0068uF 10% 50V
C14	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C15	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C16	1-126-101-11	s ELECT 100uF 20% 16V
C17	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C18	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C19	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C20	1-124-034-51	s ELECT 33uF 20% 16V
C21	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C22	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C23	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C24	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C25	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C27	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C28	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C29	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C30	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C33	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C34	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C35	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C36	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C37	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C51	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C52	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C54	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C101	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C102	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C103	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C107	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C108	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C109	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C201	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C202	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C203	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C204	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C205	1-163-016-00	s CERAMIC, CHIP 0.0039uF 10% 50V
C206	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C207	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C208	1-163-016-00	s CERAMIC, CHIP 0.0039uF 10% 50V
C209	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C210	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C211	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C212	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(DT-30 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C213	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C214	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C215	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C216	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C218	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C219	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C220	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C221	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C222	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C223	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C224	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C225	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C226	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C227	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C228	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C229	1-163-016-00	s CERAMIC, CHIP 0.0039uF 10% 50V
C230	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C231	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C232	1-163-016-00	s CERAMIC, CHIP 0.0039uF 10% 50V
C233	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C234	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C235	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C236	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C237	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C238	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C239	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C240	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C241	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C242	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C243	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C244	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C245	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C246	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C247	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C248	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C249	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C250	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C251	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C252	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C301	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C306	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C307	1-124-477-11	s ELECT 47uF 20% 25V
C308	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C309	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C311	1-124-477-11	s ELECT 47uF 20% 25V
C312	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C313	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C314	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C315	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C316	1-163-108-00	s CERAMIC, CHIP 43PF 5% 50V
C317	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C318	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C319	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C320	1-124-477-11	s ELECT 47uF 20% 25V
C321	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C322	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C323	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C325	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C326	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V

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Ref. No. or Q'ty	Part No.	SP Description
C327	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
C328	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C329	1-163-229-11	s CERAMIC, CHIP 12PF 5% 50V
C330	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
CN1	1-506-484-11	s CONNECTOR 5P, MALE
CN113	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
CNI10	1-526-659-00	o SOCKET, IC 28P
D3	8-719-941-23	s DIODE DA204U
D4	8-719-941-23	s DIODE DA204U
D5	8-719-941-23	s DIODE DA204U
D6	8-719-941-23	s DIODE DA204U
D7	8-719-941-23	s DIODE DA204U
D8	8-719-941-23	s DIODE DA204U
D9	8-719-941-23	s DIODE DA204U
D10	8-719-800-60	s LED TLR214, RED
D11	8-719-123-82	s DIODE 1SS303-T1
D201	8-719-938-72	s DIODE SB01-05CP
D202	8-719-938-72	s DIODE SB01-05CP
D203	8-719-941-23	s DIODE DA204U
D204	8-719-941-23	s DIODE DA204U
D301	8-719-938-72	s DIODE SB01-05CP
IC1	8-759-154-71	s IC CXD8176Q
IC2	8-759-054-54	s IC SRM2016M10
IC5	8-759-323-88	s IC HD6435328RA00F
IC8	8-759-925-74	s IC TC74HC04NS
IC10	8-759-075-38	s IC C256-PW2650DT-V100, EPROM
IC20	8-759-938-68	s IC CXD1095Q
IC21	8-759-926-11	s IC SN74HC138NS
IC27	8-759-925-76	s IC SN74HC08NS
IC29	8-759-925-85	s IC SN74HC32NS
IC30	8-759-982-21	s IC RC78L05A
IC101	8-752-343-05	s IC CXD2202Q
IC103	8-759-925-90	s IC SN74HC74NS
IC201	8-759-908-92	s IC TL084CNS
IC202	8-759-908-92	s IC TL084CNS
#IC203	8-759-700-07	s IC NJM2903M
IC204	8-759-908-17	s IC TL082CPS
IC205	8-759-300-71	s IC HD14053BFP
IC206	8-759-908-92	s IC TL084CNS
IC207	8-759-908-92	s IC TL084CNS
IC208	8-759-908-17	s IC TL082CPS
IC209	8-759-300-71	s IC HD14053BFP
IC210	8-759-300-71	s IC HD14053BFP
IC302	8-759-155-00	s IC CXD8177Q
IC305	8-752-006-00	s IC CX20060
IC307	8-759-324-11	s IC HA12411
IC308	8-759-982-25	s IC RC78L09A
IC309	8-759-201-47	s IC TA7357AP
L1	1-412-533-11	s INDUCTOR 47uH
L2	1-412-533-11	s INDUCTOR 47uH
L3	1-412-533-11	s INDUCTOR 47uH
L4	1-412-533-11	s INDUCTOR 47uH
L301	1-412-533-11	s INDUCTOR 47uH
L302	1-408-413-00	s INDUCTOR 22uH
L303	1-410-468-11	s INDUCTOR 6.8uH
L304	1-408-429-00	s INDUCTOR 470uH
L305	1-412-533-11	s INDUCTOR 47uH

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(DT-30 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q1	8-729-905-18	s TRANSISTOR DTC144EU
Q2	8-729-117-32	s TRANSISTOR 2SC4177
Q3	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q4	8-729-117-72	s TRANSISTOR 2SC4178
Q5	8-729-117-72	s TRANSISTOR 2SC4178
Q301	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q302	8-729-117-32	s TRANSISTOR 2SC4177
Q303	8-729-905-18	s TRANSISTOR DTC144EU
Q304	8-729-117-32	s TRANSISTOR 2SC4177
Q305	8-729-117-32	s TRANSISTOR 2SC4177
Q306	8-729-117-72	s TRANSISTOR 2SC4178
R1	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R3	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R4	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R5	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R6	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R7	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R9	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R10	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R11	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R12	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R13	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R14	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R15	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R16	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R17	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R19	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R21	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R22	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R23	1-216-031-00	s METAL, CHIP 180 5% 1/10W
R24	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R25	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R26	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R27	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R28	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R29	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R30	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R31	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R32	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R33	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R34	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R35	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R36	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R37	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R38	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R39	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R40	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R41	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R42	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R43	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R46	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R51	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R52	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R53	1-216-632-11	s METAL, CHIP 160 0.5% 1/10W
R54	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R55	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R56	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R57	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

(DT-30 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R58	1-216-295-00	s METAL, CHIP 0
R59	1-216-295-00	s METAL, CHIP 0
R60	1-216-295-00	s METAL, CHIP 0
R61	1-216-295-00	s METAL, CHIP 0
R62	1-216-295-00	s METAL, CHIP 0
R63	1-216-295-00	s METAL, CHIP 0
R64	1-216-295-00	s METAL, CHIP 0
R65	1-216-295-00	s METAL, CHIP 0
R66	1-216-295-00	s METAL, CHIP 0
R67	1-216-295-00	s METAL, CHIP 0
R68	1-216-295-00	s METAL, CHIP 0
R69	1-216-295-00	s METAL, CHIP 0
R70	1-216-295-00	s METAL, CHIP 0
R71	1-216-295-00	s METAL, CHIP 0
R72	1-216-295-00	s METAL, CHIP 0
R73	1-216-295-00	s METAL, CHIP 0
R74	1-216-295-00	s METAL, CHIP 0
R75	1-216-295-00	s METAL, CHIP 0
R76	1-216-295-00	s METAL, CHIP 0
R77	1-216-295-00	s METAL, CHIP 0
R78	1-216-295-00	s METAL, CHIP 0
R79	1-216-295-00	s METAL, CHIP 0
R80	1-216-295-00	s METAL, CHIP 0
R101	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R102	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R104	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R105	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R108	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R109	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R110	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R111	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R112	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R113	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R114	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R115	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R116	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R117	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R118	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R119	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R120	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R121	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R124	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R125	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R128	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R129	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R130	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R131	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R201	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R202	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R203	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R204	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R205	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R206	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R207	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R208	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R209	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R210	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R211	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R212	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(DT-30 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R213	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R214	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R215	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R216	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R217	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R218	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R219	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R220	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R221	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R226	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R227	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R228	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R229	1-216-676-11	s METAL, CHIP 11K 0.5% 1/10W
R230	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R231	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R232	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R233	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R234	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R235	1-216-688-11	s METAL, CHIP 36K 0.5% 1/10W
R236	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R237	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R238	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R239	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R240	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R241	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R242	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R243	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R244	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R245	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R246	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R247	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R248	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R249	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R250	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R251	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R252	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R253	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R254	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R255	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R256	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R257	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R258	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R259	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R260	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R261	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R262	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R263	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R268	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R269	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R270	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R271	1-216-676-11	s METAL, CHIP 11K 0.5% 1/10W
R272	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R273	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R274	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R275	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R276	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R277	1-216-688-11	s METAL, CHIP 36K 0.5% 1/10W
R278	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R279	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

(DT-30 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R280	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R281	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R282	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R283	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R284	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R285	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R286	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R287	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R288	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R289	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R290	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R291	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R292	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R293	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R294	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R301	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R302	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R303	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R304	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R305	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R315	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R316	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R317	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R318	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R319	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R320	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R321	1-216-101-00	s METAL, CHIP 150K 5% 1/10W
R322	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R323	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R324	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R325	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R326	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R327	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R328	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R332	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R333	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R334	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R335	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R336	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R337	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R338	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R339	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R340	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
S1	1-554-303-21	s SWITCH, PUSH
S2	1-571-967-11	s SWITCH, DIP 8-CKT
X1	1-577-121-11	s CRYSTAL 20.00MHZ
X101	1-577-121-11	s CRYSTAL 20.00MHZ

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

EQ-42 BOARD

Ref. No.
or Q'ty Part No. SP Description

All of component parts on the EQ-42 board are supplied together when you order SS-48P board.

C459	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
C460	1-163-989-11	s CERAMIC, CHIP 0.033uF 10% 25V
IC415	8-759-908-17	s IC TL082CPS
Q403	8-729-209-07	s TRANSISTOR 2SC4213-B
R439	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R440	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R449	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

HC-14C BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	A-6717-635-A	o MOUNTED CIRCUIT BOARD, HC-14C
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C2	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C3	1-124-229-00	s ELECT 33uF 20% 10V
C4	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C5	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C6	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C7	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C8	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN550	1-566-766-11	o CONNECTOR 11P, MALE
CN551	1-566-760-11	s CONNECTOR, ZR 5P, MALE
CN552	1-565-772-11	o CONNECTOR, PS 10P, MALE
CN553	1-566-765-11	o CONNECTOR 10P, MALE
CN554	1-566-762-11	o CONNECTOR 7P, MALE
CN555	1-566-761-11	o CONNECTOR 6P, MALE
CP1	1-548-152-11	o HOURS METER, DIGITAL
D1	8-719-939-39	s LED GL5HD8, RED
F1	Δ1-532-776-21	s FUSE 1A 125V
F2	Δ1-532-776-21	s FUSE 1A 125V
IC1	8-759-043-36	s IC MC68HC05N4-SC406673
IC2	8-759-926-64	s IC SN74HC367ANS
IC3	8-759-300-71	s IC HD14053BFP
Q1	8-729-924-56	s TRANSISTOR DTC123JU
Q2	8-729-924-56	s TRANSISTOR DTC123JU
Q3	8-729-924-56	s TRANSISTOR DTC123JU
Q4	8-729-924-56	s TRANSISTOR DTC123JU
Q5	8-729-924-56	s TRANSISTOR DTC123JU
R1	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R2	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R3	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R4	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R5	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R6	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R7	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R8	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R9	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R10	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R11	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R12	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R13	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R14	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R15	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R16	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R17	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R18	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R19	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R20	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R21	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R22	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R23	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R24	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R25	1-216-089-00	s METAL, CHIP 47K 5% 1/10W

NOTE: For the # marked in the following parts list, refer to Section 19 "CHANGED PARTS".

(HC-14C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R26	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R27	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R28	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R29	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R30	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R33	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R34	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R35	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R38	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R41	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R44	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R45	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R48	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R51	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R100	1-216-295-00	s METAL, CHIP 0
R101	1-216-295-00	s METAL, CHIP 0
R102	1-216-295-00	s METAL, CHIP 0
R103	1-216-295-00	s METAL, CHIP 0
R104	1-216-295-00	s METAL, CHIP 0
R105	1-216-295-00	s METAL, CHIP 0
R106	1-216-295-00	s METAL, CHIP 0
R108	1-216-295-00	s METAL, CHIP 0
R109	1-216-295-00	s METAL, CHIP 0
R110	1-216-295-00	s METAL, CHIP 0
R111	1-216-295-00	s METAL, CHIP 0
R112	1-216-295-00	s METAL, CHIP 0
R113	1-216-295-00	s METAL, CHIP 0
R114	1-216-295-00	s METAL, CHIP 0
R115	1-216-295-00	s METAL, CHIP 0
R116	1-216-295-00	s METAL, CHIP 0
R118	1-216-295-00	s METAL, CHIP 0
R119	1-216-295-00	s METAL, CHIP 0
R120	1-216-295-00	s METAL, CHIP 0
R121	1-216-295-00	s METAL, CHIP 0
R122	1-216-295-00	s METAL, CHIP 0
R124	1-216-295-00	s METAL, CHIP 0
R125	1-216-295-00	s METAL, CHIP 0
R126	1-216-295-00	s METAL, CHIP 0
R127	1-216-295-00	s METAL, CHIP 0
R128	1-216-295-00	s METAL, CHIP 0
R129	1-216-295-00	s METAL, CHIP 0
R130	1-216-295-00	s METAL, CHIP 0
R131	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
RV1	1-237-695-11	s RES, VAR CARBON 5K
RV3	1-237-695-11	s RES, VAR CARBON 5K
RV4	1-237-695-11	s RES, VAR CARBON 5K
RV5	1-237-696-11	s RES, VAR CARBON 5K
RV6	1-237-696-11	s RES, VAR CARBON 5K
RV7	1-237-696-11	s RES, VAR CARBON 5K
S1	1-572-839-11	s SWITCH, SLIDE
S2	1-572-837-11	s SWITCH, SLIDE
S7	1-554-909-11	s SWITCH, PUSH
S8	1-554-909-11	s SWITCH, PUSH
S9	1-572-837-11	s SWITCH, SLIDE
S10	1-572-838-11	s SWITCH, SLIDE
S11	1-572-837-11	s SWITCH, SLIDE
S13	1-572-837-11	s SWITCH, SLIDE
S14	1-572-837-11	s SWITCH, SLIDE

(HC-14C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
S15	1-572-837-11	s SWITCH, SLIDE
S16	1-554-949-11	s SWITCH, SLIDE
X1	1-567-192-11	s RESONATOR, CERAMIC 4.00MHZ

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

KY-210B BOARD

Ref. No.
or Q'ty Part No. SP Description

This board includes the DP-139B board.

1pc A-8271-182-A o MOUNTED CIRCUIT BOARD, KY-210B
3pcs 3-660-828-00 o HOLDER (9), PC BOARD
1bpcs 3-668-124-00 o HOLDER, LED

C1 1-124-907-11 s ELECT 10uF 20% 50V
C2 1-124-907-11 s ELECT 10uF 20% 50V
C6 1-126-101-11 s ELECT 100uF 20% 16V
C7 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
C8 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V

C9 1-124-907-11 s ELECT 10uF 20% 50V
C10 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
C12 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
C13 1-124-907-11 s ELECT 10uF 20% 50V
C14 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V

C16 1-163-104-00 s CERAMIC, CHIP 30PF 5% 50V
C17 1-163-104-00 s CERAMIC, CHIP 30PF 5% 50V
C20 1-124-907-11 s ELECT 10uF 20% 50V
C21 1-124-907-11 s ELECT 10uF 20% 50V
C22 1-124-907-11 s ELECT 10uF 20% 50V

C23 1-124-907-11 s ELECT 10uF 20% 50V
C24 1-124-907-11 s ELECT 10uF 20% 50V
C25 1-124-907-11 s ELECT 10uF 20% 50V
C26 1-124-907-11 s ELECT 10uF 20% 50V
C27 1-124-907-11 s ELECT 10uF 20% 50V

C30 1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V
C31 1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V
C32 1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V
C33 1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V
C35 1-124-907-11 s ELECT 10uF 20% 50V

C47 1-124-907-11 s ELECT 10uF 20% 50V
C48 1-124-477-11 s ELECT 47uF 20% 25V
C49 1-124-907-11 s ELECT 10uF 20% 50V

CN2 1-506-485-11 s CONNECTOR 6P, MALE
CN590 1-559-261-21 s CABLE, FLAT 10P
CN1003 1-535-761-11 o CABLE, FLAT 23P

D1 8-719-104-34 s DIODE 1S2835
D2 8-719-104-34 s DIODE 1S2835
D4 8-719-109-57 s DIODE RD2.4ES-B2
D5 8-719-109-57 s DIODE RD2.4ES-B2
D6 8-719-109-57 s DIODE RD2.4ES-B2

D7 8-719-109-57 s DIODE RD2.4ES-B2
D8 8-719-109-57 s DIODE RD2.4ES-B2
D9 8-719-109-57 s DIODE RD2.4ES-B2
D10 8-719-109-57 s DIODE RD2.4ES-B2
D11 8-719-104-34 s DIODE 1S2835

D12 8-719-104-34 s DIODE 1S2835
D13 8-719-104-34 s DIODE 1S2835
D14 8-719-104-34 s DIODE 1S2835
D16 8-719-104-34 s DIODE 1S2835
D19 8-719-104-34 s DIODE 1S2835

D20 8-719-104-34 s DIODE 1S2835
D21 8-719-104-34 s DIODE 1S2835
D23 8-719-104-34 s DIODE 1S2835
D24 8-719-104-34 s DIODE 1S2835
D25 8-719-104-34 s DIODE 1S2835

D26 8-719-104-34 s DIODE 1S2835
D27 8-719-104-34 s DIODE 1S2835

(KY-210B BOARD)

Ref. No.
or Q'ty Part No. SP Description

D29 8-719-104-34 s DIODE 1S2835
D30 8-719-104-34 s DIODE 1S2835
D36 8-719-939-39 s LED GL5HD8, RED
D38 8-719-939-39 s LED GL5HD8, RED
D39 8-719-939-39 s LED GL5HD8, RED

D40 8-719-939-39 s LED GL5HD8, RED
D41 8-719-939-39 s LED GL5HD8, RED
D42 8-719-939-39 s LED GL5HD8, RED
D43 8-719-939-39 s LED GL5HD8, RED
D49 8-719-802-11 s LED TLUG154, GRN

D51 8-719-939-39 s LED GL5HD8, RED
D55 8-719-939-39 s LED GL5HD8, RED
D56 8-719-939-39 s LED GL5HD8, RED
D57 8-719-802-11 s LED TLUG154, GRN
D58 8-719-939-39 s LED GL5HD8, RED

D59 8-719-802-11 s LED TLUG154, GRN
D60 8-719-939-39 s LED GL5HD8, RED
D63 8-719-939-39 s LED GL5HD8, RED

IC2 8-759-982-21 s IC RC78L05A
IC3 8-759-500-43 s IC CXD8117P
IC4 8-759-501-52 s IC M50747H-250SP
IC5 8-759-645-16 s IC M54516P
IC6 8-759-645-16 s IC M54516P

IC7 8-759-645-16 s IC M54516P
IC8 8-759-982-21 s IC RC78L05A

Q2 8-729-100-66 s TRANSISTOR 2SC1623
Q3 8-729-901-01 s TRANSISTOR DTC144EK
Q4 8-729-216-22 s TRANSISTOR 2SA1162
Q5 8-729-216-22 s TRANSISTOR 2SA1162
Q6 8-729-216-22 s TRANSISTOR 2SA1162

Q7 8-729-216-22 s TRANSISTOR 2SA1162
Q8 8-729-216-22 s TRANSISTOR 2SA1162
Q9 8-729-216-22 s TRANSISTOR 2SA1162
Q10 8-729-216-22 s TRANSISTOR 2SA1162
Q12 8-729-216-22 s TRANSISTOR 2SA1162

Q13 8-729-216-22 s TRANSISTOR 2SA1162
Q14 8-729-216-22 s TRANSISTOR 2SA1162
Q15 8-729-216-22 s TRANSISTOR 2SA1162
Q16 8-729-216-22 s TRANSISTOR 2SA1162
Q17 8-729-216-22 s TRANSISTOR 2SA1162

Q18 8-729-216-22 s TRANSISTOR 2SA1162
Q19 8-729-216-22 s TRANSISTOR 2SA1162
Q20 8-729-923-62 s TRANSISTOR DTA123JK-T146
Q21 8-729-923-62 s TRANSISTOR DTA123JK-T146
Q22 8-729-923-62 s TRANSISTOR DTA123JK-T146

Q23 8-729-923-62 s TRANSISTOR DTA123JK-T146
Q24 8-729-923-62 s TRANSISTOR DTA123JK-T146
Q25 8-729-922-73 s TRANSISTOR DTC123JK-T146
Q26 8-729-922-73 s TRANSISTOR DTC123JK-T146
Q27 8-729-922-73 s TRANSISTOR DTC123JK-T146

Q28 8-729-922-73 s TRANSISTOR DTC123JK-T146
Q29 8-729-922-73 s TRANSISTOR DTC123JK-T146
Q30 8-729-922-73 s TRANSISTOR DTC123JK-T146
Q31 8-729-922-73 s TRANSISTOR DTC123JK-T146
Q32 8-729-922-73 s TRANSISTOR DTC123JK-T146

Q33 8-729-900-51 s TRANSISTOR DTA114TK
Q34 8-729-100-66 s TRANSISTOR 2SC1623
Q35 8-729-900-51 s TRANSISTOR DTA114TK

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(KY-210B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q36	8-729-100-66	s TRANSISTOR 2SC1623
Q37	8-729-900-51	s TRANSISTOR DTA114TK
Q38	8-729-100-66	s TRANSISTOR 2SC1623
Q39	8-729-900-51	s TRANSISTOR DTA114TK
Q40	8-729-100-66	s TRANSISTOR 2SC1623
Q41	8-729-900-51	s TRANSISTOR DTA114TK
Q42	8-729-100-66	s TRANSISTOR 2SC1623
Q43	8-729-900-51	s TRANSISTOR DTA114TK
Q44	8-729-100-66	s TRANSISTOR 2SC1623
Q45	8-729-900-51	s TRANSISTOR DTA114TK
Q46	8-729-100-66	s TRANSISTOR 2SC1623
Q47	8-729-900-51	s TRANSISTOR DTA114TK
Q48	8-729-100-66	s TRANSISTOR 2SC1623
Q53	8-729-900-51	s TRANSISTOR DTA114TK
Q54	8-729-100-66	s TRANSISTOR 2SC1623
Q63	8-729-900-51	s TRANSISTOR DTA114TK
Q64	8-729-100-66	s TRANSISTOR 2SC1623
Q87	8-729-100-66	s TRANSISTOR 2SC1623
Q88	8-729-100-66	s TRANSISTOR 2SC1623
R5	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R6	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R7	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R8	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R9	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R10	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R11	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R12	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R13	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R14	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R15	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R16	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R17	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R18	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R19	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R20	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R21	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R22	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R23	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R24	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R25	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R28	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R29	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R30	1-249-407-11	s CARBON 150 5% 1/4W
R31	1-249-407-11	s CARBON 150 5% 1/4W
R32	1-249-407-11	s CARBON 150 5% 1/4W
R33	1-249-407-11	s CARBON 150 5% 1/4W
R34	1-249-407-11	s CARBON 150 5% 1/4W
R35	1-249-407-11	s CARBON 150 5% 1/4W
R36	1-249-407-11	s CARBON 150 5% 1/4W
R37	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R38	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R39	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R40	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R41	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R42	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R43	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R44	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R45	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R46	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W

(KY-210B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R47	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R48	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R49	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R50	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R51	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R52	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R53	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R54	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R55	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R56	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R57	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R58	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R59	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R60	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R67	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R68	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R69	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R70	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R71	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R72	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R73	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R74	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R75	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R76	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R77	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R78	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R79	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R80	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R81	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R82	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R83	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R84	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R85	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R86	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R87	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R88	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R89	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R90	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R91	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R92	1-249-410-11	s CARBON 270 5% 1/4W
R93	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R94	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R95	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R103	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R104	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R106	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R107	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R109	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R110	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R112	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R113	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R115	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R116	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R117	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R118	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R119	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R120	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R121	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R122	1-216-043-00	s METAL, CHIP 560 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(KY-210B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R124	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R125	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R126	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R127	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R128	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R132	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R135	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R138	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R141	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R144	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R145	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R146	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R147	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R148	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R159	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R160	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R161	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R162	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R163	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R170	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R171	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R172	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R173	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
S1	1-571-169-11	s SWITCH, PUSH, WITH LED
S2	1-571-169-21	s SWITCH, PUSH, WITH LED
S3	1-571-167-41	s SWITCH, PUSH, WITH LED
S4	1-571-167-31	s SWITCH, PUSH, WITH LED
S5	1-571-167-21	s SWITCH, PUSH, WITH LED
S6	1-571-167-11	s SWITCH, PUSH, WITH LED
S7	1-571-167-11	s SWITCH, PUSH, WITH LED
S10	1-552-539-00	s SWITCH, PUSH
S16	1-571-167-11	s SWITCH, PUSH, WITH LED
S17	1-552-539-00	s SWITCH, PUSH
S19	1-552-539-00	s SWITCH, PUSH
S20	1-552-539-00	s SWITCH, PUSH
S21	1-552-539-00	s SWITCH, PUSH
S24	1-516-995-00	s SWITCH, LEVER SLIDE
S25	1-552-539-00	s SWITCH, PUSH
S26	1-552-539-00	s SWITCH, PUSH
S27	1-552-539-00	s SWITCH, PUSH
S28	1-552-539-00	s SWITCH, PUSH
S29	1-552-539-00	s SWITCH, PUSH
S30	1-552-539-00	s SWITCH, PUSH
S31	1-571-167-11	s SWITCH, PUSH, WITH LED
S34	1-552-539-00	s SWITCH, PUSH
S35	1-552-539-00	s SWITCH, PUSH
X1	1-567-869-11	s RESONATOR, CERAMIC 9.83MHZ

LP-57 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	3-171-508-02	o HOLDER, LAMP
CN932	1-506-467-11	s CONNECTOR 2P, MALE
D1	8-719-820-27	s LED TLY-256, YEL
D2	8-719-820-27	s LED TLY-256, YEL
D3	8-719-820-27	s LED TLY-256, YEL
D4	8-719-820-27	s LED TLY-256, YEL
D5	8-719-820-27	s LED TLY-256, YEL
D6	8-719-820-27	s LED TLY-256, YEL
D7	8-719-820-27	s LED TLY-256, YEL
D8	8-719-820-27	s LED TLY-256, YEL
D9	8-719-820-27	s LED TLY-256, YEL
D10	8-719-820-27	s LED TLY-256, YEL
R1	1-249-409-11	s CARBON 220 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W
R3	1-249-409-11	s CARBON 220 5% 1/4W
R4	1-249-409-11	s CARBON 220 5% 1/4W
R5	1-249-409-11	s CARBON 220 5% 1/4W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

MA-44B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8271-181-A	o MOUNTED CIRCUIT BOARD, MA-44B
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C2	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C3	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C4	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C5	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C6	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C7	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C8	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C12	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C13	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C14	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C15	1-124-477-11	s ELECT 47uF 20% 25V
C16	1-124-477-11	s ELECT 47uF 20% 25V
C17	1-124-927-11	s ELECT 4.7uF 20% 100V
C18	1-124-927-11	s ELECT 4.7uF 20% 100V
C19	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C20	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C21	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C22	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C23	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C24	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C25	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C26	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C27	1-131-348-00	s TANTALUM 1.5uF 10% 35V
C28	1-131-348-00	s TANTALUM 1.5uF 10% 35V
C29	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C30	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C509	1-124-907-11	s ELECT 10uF 20% 50V
C510	1-124-925-11	s ELECT 2.2uF 20% 100V
C511	1-124-925-11	s ELECT 2.2uF 20% 100V
C512	1-124-907-11	s ELECT 10uF 20% 50V
C513	1-124-907-11	s ELECT 10uF 20% 50V
C514	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C515	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN406	1-569-343-11	s CONNECTOR, BB 21P
CN408	1-506-481-11	s CONNECTOR 2P, MALE
CN409	1-506-481-11	s CONNECTOR 2P, MALE
CN410	1-506-481-11	s CONNECTOR 2P, MALE
CN411	1-506-481-11	s CONNECTOR 2P, MALE
D1	8-719-123-82	s DIODE 1SS303-T1
D2	8-719-123-82	s DIODE 1SS303-T1
D3	8-719-123-82	s DIODE 1SS303-T1
IC1	8-759-745-60	s IC NJM4560D
IC2	8-759-145-57	s IC UPC4557C
IC3	8-759-145-57	s IC UPC4557C
IC4	8-759-140-53	s IC UPD4053BC
IC5	8-759-745-60	s IC NJM4560D
IC503	8-759-520-06	s IC XRA17809T
IC504	8-759-982-39	s IC RC7909FA
IC505	8-759-603-69	s IC M51957BL
Q1	8-729-117-32	s TRANSISTOR 2SC4177
Q2	8-729-117-32	s TRANSISTOR 2SC4177
Q3	8-729-117-32	s TRANSISTOR 2SC4177

(MA-44B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q4	8-729-117-32	s TRANSISTOR 2SC4177
Q5	8-729-143-63	s TRANSISTOR 2SJ132
Q6	8-729-143-63	s TRANSISTOR 2SJ132
Q7	8-729-143-63	s TRANSISTOR 2SJ132
Q8	8-729-143-63	s TRANSISTOR 2SJ132
Q9	8-729-143-63	s TRANSISTOR 2SJ132
Q10	8-729-143-63	s TRANSISTOR 2SJ132
R1	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R2	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R3	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R4	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R5	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R6	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R7	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R8	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R9	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R10	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R11	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R12	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R13	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R14	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R15	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R16	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R17	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R18	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R19	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R20	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R21	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R22	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R23	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R24	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R25	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R26	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R27	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R28	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R29	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R30	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R31	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R32	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R33	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R34	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R35	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R36	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R37	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R38	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R39	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R40	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R41	1-216-095-00	s METAL, CHIP 82K 5% 1/10W
R42	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R43	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R44	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R45	1-216-095-00	s METAL, CHIP 82K 5% 1/10W
R46	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R47	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R48	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R49	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R50	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R51	1-216-121-00	s METAL, CHIP 1M 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(MA-44B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R52	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R53	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R54	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R55	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R56	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R57	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R58	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R59	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R60	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R61	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R62	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R501	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
RV1	1-241-123-11	s RES, ADJ CARBON 47K
RV2	1-241-123-11	s RES, ADJ CARBON 47K

MB-322B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-209-A	o MOUNTED CIRCUIT BOARD, MB-322B
C101	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C102	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
CN103	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN104	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN105	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN106	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN109	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN110	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN111	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN113	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN114	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN139	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN140	1-573-598-31	s CONNECTOR, PHEC 100P, FEMALE
CN141	1-573-598-11	s CONNECTOR, PHEC 100P, FEMALE
CN150	1-568-950-11	o CONNECTOR 12P, MALE
CN151	1-568-950-11	o CONNECTOR 12P, MALE
CN200	1-568-945-11	o CONNECTOR 7P, MALE
CN202	1-568-948-11	o CONNECTOR 10P, MALE
CN203	1-506-493-11	s CONNECTOR 14P, MALE
CN204	1-568-949-11	o CONNECTOR 11P, MALE
CN205	1-568-942-11	o CONNECTOR 4P, MALE
CN206	1-568-944-11	o CONNECTOR 6P, MALE
CN207	1-568-943-11	o CONNECTOR 5P, MALE
CN211	1-506-476-11	s CONNECTOR 11P, MALE
CN212	1-506-471-11	s CONNECTOR 6P, MALE
CN213	1-568-955-11	o CONNECTOR 6P, MALE
CN214	1-506-469-11	s CONNECTOR 4P, MALE
CN220	1-568-941-11	o CONNECTOR 3P, MALE
CN221	1-565-879-11	s CONNECTOR 7P, MALE
CN222	1-565-883-11	o CONNECTOR 11P, MALE
CN223	1-565-882-11	o CONNECTOR 10P, MALE
CN224	1-568-934-11	o CONNECTOR 7P, MALE
CN260	1-564-209-00	o CONNECTOR, IL-S 10P, MALE
CN262	1-690-104-11	s CABLE, FLAT 64P
CN292	1-564-216-00	o CONNECTOR, VH 5P, MALE
CN293	1-564-915-11	o CONNECTOR, VH 7P, MALE
CN294	1-564-243-00	o CONNECTOR, VH 6P, MALE
F1	△1-532-777-21	s FUSE 1.25A 125V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

PC-62 BOARD

Ref. No. or Q'ty	Part No.	SP Description
#1pc	3-176-598-02	o SPRING, GROUND
1pc	1-640-171-12	o PRINTED CIRCUIT BOARD, PC-62
CN934	1-565-038-11	s CONNECTOR, FPC 5P
PH1	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PH2	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PH3	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
R1	1-249-414-11	s CARBON 560 5% 1/4W
R2	1-249-414-11	s CARBON 560 5% 1/4W
R3	1-249-414-11	s CARBON 560 5% 1/4W

PD-56 BOARD

Ref. No. or Q'ty	Part No.	SP Description
#1pc	1-640-162-13	o PRINTED CIRCUIT BOARD, PD-56
CN914	1-506-472-11	s CONNECTOR 7P, MALE
CN915	1-506-467-11	s CONNECTOR 2P, MALE
CN916	1-508-900-00	s CONNECTOR 2P, MALE

PTC-39 BOARD

Ref. No. or Q'ty	Part No.	SP Description
#1pc	1-633-548-13	o PRINTED CIRCUIT BOARD, PTC-39
1pc	2-124-699-02	o HOLDER, SENSOR
C1	1-162-875-11	s CERAMIC 68PF 5% 50V
C2	1-162-875-11	s CERAMIC 68PF 5% 50V
C3	1-126-154-11	s ELECT 47uF 20% 6.3V
C4	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C5	1-161-051-00	s CERAMIC 0.01uF 10% 50V
CN1	1-506-471-11	s CONNECTOR 6P, MALE
DME1	8-745-001-02	s DME DM-211A
IC1	8-759-145-58	s IC UPC4558C
IC2	8-759-981-64	s IC LM2903DQ
IC3	8-719-985-75	s PHOTOINTERRUPTER GP1A53HR
IC4	8-719-985-74	s PHOTOINTERRUPTER GP1A52HR
Q1	8-729-900-33	s TRANSISTOR DTC144EF
R1	1-247-895-00	s CARBON 470K 5% 1/4W
R2	1-249-425-11	s CARBON 4.7K 5% 1/4W
R3	1-247-887-00	s CARBON 220K 5% 1/4W
R4	1-249-433-11	s CARBON 22K 5% 1/4W
R5	1-249-433-11	s CARBON 22K 5% 1/4W
R6	1-249-433-11	s CARBON 22K 5% 1/4W
R7	1-247-895-00	s CARBON 470K 5% 1/4W
R8	1-249-425-11	s CARBON 4.7K 5% 1/4W
R9	1-247-887-00	s CARBON 220K 5% 1/4W
R10	1-249-433-11	s CARBON 22K 5% 1/4W
R11	1-249-433-11	s CARBON 22K 5% 1/4W
R12	1-249-433-11	s CARBON 22K 5% 1/4W
R13	1-249-406-11	s CARBON 120 5% 1/4W
RV1	1-228-472-00	s RES, ADJ METAL 2K
RV2	1-228-472-00	s RES, ADJ METAL 2K

PTC-42 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-168-12	o PRINTED CIRCUIT BOARD, PTC-42
CN924	1-506-483-21	s CONNECTOR 4P, MALE
R1	1-249-409-11	s CARBON 220 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

PTC-49 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-164-11	o PRINTED CIRCUIT BOARD, PTC-49
CN901	1-506-488-11	s CONNECTOR 9P, MALE
CN902	1-506-482-11	s CONNECTOR 3P, MALE
CN903	1-506-481-11	s CONNECTOR 2P, MALE
PH1	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PH2	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
R1	1-249-409-11	s CARBON 220 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W

PTC-54 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-163-11	o PRINTED CIRCUIT BOARD, PTC-54
CN904	1-506-482-11	s CONNECTOR 3P, MALE
PH1	8-719-939-05	s PHOTOINTERRUPTER GP-1S54

PTC-55 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-165-11	o PRINTED CIRCUIT BOARD, PTC-55
CN922	1-506-470-11	s CONNECTOR 5P, MALE
D1	8-719-938-07	s LED GL480, INFRARED
D2	8-719-938-07	s LED GL480, INFRARED
D3	8-719-938-07	s LED GL480, INFRARED
Q1	8-729-903-81	s PHOTOTRANSISTOR PT480
Q2	8-729-903-81	s PHOTOTRANSISTOR PT480
Q3	8-729-903-81	s PHOTOTRANSISTOR PT480

RM-82 BOARD

Ref. No. or Q'ty	Part No.	SP Description
2pcs	1-640-166-12	o PRINTED CIRCUIT BOARD, RM-82
CN923	1-563-233-11	o CONNECTOR, FPC 13P
CN923	1-563-233-11	o CONNECTOR, FPC 13P
CN926	1-506-469-11	s CONNECTOR 4P, MALE
CN926	1-506-469-11	s CONNECTOR 4P, MALE
CN927	1-506-468-11	s CONNECTOR 3P, MALE
CN927	1-506-468-11	s CONNECTOR 3P, MALE

RM-93A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-048-21	o PRINTED CIRCUIT BOARD, RM-93A
C700	1-124-122-11	s ELECT 100uF 20% 50V
CN700	1-506-472-11	s CONNECTOR 7P, MALE
CN705	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN710	1-566-765-11	o CONNECTOR 10P, MALE
CN715	1-566-319-11	o CONNECTOR, D-SUB 15P, MALE
CN720	1-508-900-00	s CONNECTOR 2P, MALE
R700	1-215-909-11	s METAL 47 5% 3W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

RP-57BP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8271-389-A	o MOUNTED CIRCUIT BOARD, RP-57BP
1pc	3-171-456-02	o SHEET (S), CARD
1pc	3-171-485-02	o GUARD, EDGE
1pc	7-621-759-45	s SCREW +PSW 2.6X6
2pcs	2-251-622-11	s LEVER, PC BOARD
1pc	4-352-844-01	s PIN, LEAD, COATING
1pc	1-535-894-11	o TAB, FASTON
C11	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C12	1-126-101-11	s ELECT 100uF 20% 16V
C13	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C16	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C111	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C112	1-126-101-11	s ELECT 100uF 20% 16V
C113	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C116	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C211	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C212	1-126-101-11	s ELECT 100uF 20% 16V
C213	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C215	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C216	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C311	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C312	1-126-101-11	s ELECT 100uF 20% 16V
C313	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C315	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C316	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C701	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
#C702	1-124-477-11	s ELECT 47uF 20% 25V
#C703	1-124-477-11	s ELECT 47uF 20% 25V
C704	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C705	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
#C706	1-124-477-11	s ELECT 47uF 20% 25V
C712	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
#C713	1-124-477-11	s ELECT 47uF 20% 25V
#C714	1-124-477-11	s ELECT 47uF 20% 25V
C715	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C716	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
#C717	1-124-477-11	s ELECT 47uF 20% 25V
C718	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
#C719	1-124-477-11	s ELECT 47uF 20% 25V
C720	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
#C721	1-124-477-11	s ELECT 47uF 20% 25V
#C722	1-124-477-11	s ELECT 47uF 20% 25V
C723	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C724	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
#C725	1-124-477-11	s ELECT 47uF 20% 25V
C801	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C802	1-126-101-11	s ELECT 100uF 20% 16V
C803	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C804	1-126-101-11	s ELECT 100uF 20% 16V
C805	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C811	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C812	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C815	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN1	1-506-468-11	o CONNECTOR 3P, MALE
CN2	1-506-468-11	o CONNECTOR 3P, MALE
CN101	1-506-468-11	o CONNECTOR 3P, MALE
CN102	1-506-468-11	o CONNECTOR 3P, MALE
CN114	1-573-600-21	s CONNECTOR, PHEC 100P, MALE

(RP-57BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D701	8-719-123-82	s DIODE 1SS303-T1
D702	8-719-123-82	s DIODE 1SS303-T1
D703	8-719-123-85	s DIODE 1SS304
IC2	1-809-458-11	s HIC (PRE-AMP)
IC102	1-809-458-11	s HIC (PRE-AMP)
IC202	1-809-458-11	s HIC (PRE-AMP)
IC302	1-809-458-11	s HIC (PRE-AMP)
IC701	8-759-982-05	s IC RC7805FA
IC703	8-759-982-25	s IC RC78L09A
IC704	8-759-982-25	s IC RC78L09A
IC705	8-759-982-38	s IC UPC7905H
IC801	8-752-052-73	s IC CXA1451M
IC811	8-752-052-73	s IC CXA1451M
L701	1-412-533-11	s INDUCTOR 47uH
L703	1-412-533-11	s INDUCTOR 47uH
L704	1-412-533-11	s INDUCTOR 47uH
L801	1-410-482-31	s INDUCTOR 100uH
L802	1-410-482-31	s INDUCTOR 100uH
Q204	8-729-117-72	s TRANSISTOR 2SC4178
Q304	8-729-117-72	s TRANSISTOR 2SC4178
R19	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R20	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R24	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R25	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R26	1-216-295-00	s METAL, CHIP 0
R28	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R119	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R120	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R124	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R125	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R126	1-216-295-00	s METAL, CHIP 0
R127	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R219	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R220	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R222	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R223	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R224	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R225	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R226	1-216-295-00	s METAL, CHIP 0
R228	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R319	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R320	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R322	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R323	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R324	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R325	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R326	1-216-295-00	s METAL, CHIP 0
R327	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R801	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R802	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R811	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R812	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R901	1-216-295-00	s METAL, CHIP 0
R902	1-216-295-00	s METAL, CHIP 0
R903	1-216-295-00	s METAL, CHIP 0
R904	1-216-295-00	s METAL, CHIP 0
R905	1-216-295-00	s METAL, CHIP 0

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(RP-57BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R906	1-216-295-00	s METAL, CHIP 0
RV4	1-238-804-11	s RES, ADJ METAL 50K
RV104	1-238-804-11	s RES, ADJ METAL 50K
RV204	1-238-804-11	s RES, ADJ METAL 50K
RV304	1-238-804-11	s RES, ADJ METAL 50K
T2	1-427-595-11	s TRANSFORMER, RF INPUT
T102	1-427-595-11	s TRANSFORMER, RF INPUT
T202	1-427-591-11	s TRANSFORMER, RF INPUT
T302	1-427-591-11	s TRANSFORMER, RF INPUT

SS-48P BOARD

Ref. No. or Q'ty	Part No.	SP Description
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This board includes the EQ-42 board.

1pc	A-6717-637-A	o MOUNTED CIRCUIT BOARD, SS-48P
1pc	3-171-453-03	o PLATE (L), SHIELD, CARD
1pc	3-171-454-02	o SHEET (L), CARD
1pc	7-621-759-45	s SCREW +PSW 2.6X6
2pcs	2-251-622-11	s LEVER, PC BOARD
C1	1-163-091-00	s CERAMIC, CHIP 8PF 50V
C2	1-163-091-00	s CERAMIC, CHIP 8PF 50V
C3	1-131-347-00	s TANTALUM 1uF 10% 35V
C4	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C5	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C6	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C7	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C12	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C14	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C15	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C101	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C102	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C103	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C104	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C105	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C106	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C107	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C108	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C109	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C116	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C117	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C118	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C119	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C120	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C121	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C126	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C127	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C301	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C302	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C304	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C401	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C402	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C403	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C404	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C405	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C406	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C407	1-131-342-00	s TANTALUM 0.15uF 10% 35V
C408	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C409	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C410	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C411	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C412	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C413	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C414	1-124-907-11	s ELECT 10uF 20% 50V
C415	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C416	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C417	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C418	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C423	1-124-907-11	s ELECT 10uF 20% 50V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C424	1-124-907-11	s ELECT 10uF 20% 50V
C425	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C426	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C427	1-163-137-00	s CERAMIC, CHIP 680PF 5% 50V
C450	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C451	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C452	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C453	1-124-907-11	s ELECT 10uF 20% 50V
C454	1-124-141-00	s ELECT 330uF 20% 10V
C456	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C457	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C458	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C501	1-163-014-00	s CERAMIC, CHIP 0.0027uF 10% 50V
C502	1-131-351-00	s TANTALUM 4.7uF 10% 35V
C503	1-131-345-00	s TANTALUM 0.47uF 10% 35V
C504	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C505	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C506	1-130-475-00	s MYLAR 0.0022uF 5% 50V
C507	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C508	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C509	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C510	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C511	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C512	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C513	1-162-871-11	s CERAMIC 47PF 5% 50V
C515	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C516	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C518	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C519	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C520	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C521	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C522	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C523	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C524	1-163-137-00	s CERAMIC, CHIP 680PF 5% 50V
C601	1-124-477-11	s ELECT 47uF 20% 25V
C602	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C603	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C604	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C605	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C606	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C607	1-124-477-11	s ELECT 47uF 20% 25V
C608	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C609	1-124-477-11	s ELECT 47uF 20% 25V
C610	1-124-477-11	s ELECT 47uF 20% 25V
C611	1-124-477-11	s ELECT 47uF 20% 25V
C612	1-124-477-11	s ELECT 47uF 20% 25V
C613	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C614	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C616	1-131-347-00	s TANTALUM 1uF 10% 35V
C617	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C619	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C620	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C621	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C622	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C623	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C624	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C626	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C627	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C628	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C629	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C630	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C631	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C632	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C633	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C634	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C635	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C636	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C637	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C638	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C639	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C640	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C642	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C643	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C644	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C645	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C646	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C647	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C648	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C649	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C650	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C701	1-163-229-11	s CERAMIC, CHIP 12PF 5% 50V
C702	1-163-229-11	s CERAMIC, CHIP 12PF 5% 50V
C703	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C704	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C705	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C706	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C707	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C708	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C709	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C710	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C711	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C712	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C713	1-163-229-11	s CERAMIC, CHIP 12PF 5% 50V
C714	1-163-229-11	s CERAMIC, CHIP 12PF 5% 50V
C715	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C716	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C718	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C720	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C801	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C803	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C804	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C805	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C806	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C807	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C810	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C811	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C813	1-164-161-11	s CERAMIC, CHIP 0.0022uF 10% 100V
C814	1-164-161-11	s CERAMIC, CHIP 0.0022uF 10% 100V
C815	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C818	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C820	1-124-903-11	s ELECT 1uF 20% 50V
C822	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C824	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C826	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN1	1-506-484-11	s CONNECTOR 5P, MALE
CN139	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
CN140	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
CN141	1-573-600-21	s CONNECTOR, PHEC 100P, MALE

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
CNI7	1-526-660-21	o SOCKET, IC 32P
CNI403	1-526-950-11	o SOCKET, IC 64P
CNI607	1-526-660-21	o SOCKET, IC 32P
COP1	1-565-413-11	o PLUG, SHORTING
COP2	1-565-413-11	o PLUG, SHORTING
COP3	1-565-413-11	o PLUG, SHORTING
COP4	1-565-413-11	o PLUG, SHORTING
COR1	1-691-246-11	o CONNECTOR 12P, MALE
CV401	1-141-390-11	s CAP, TRIMMER 90PF
CV402	1-141-245-00	s CAP, TRIMMER 30PF
D101	8-719-941-23	s DIODE DA204U
D102	8-719-941-23	s DIODE DA204U
D301	8-719-800-60	s LED TLR214, RED
D401	8-719-941-23	s DIODE DA204U
D402	8-719-941-23	s DIODE DA204U
D403	8-719-941-23	s DIODE DA204U
D404	8-719-941-23	s DIODE DA204U
D405	8-719-941-23	s DIODE DA204U
D406	8-719-941-23	s DIODE DA204U
D601	8-719-941-23	s DIODE DA204U
D602	8-719-941-23	s DIODE DA204U
D603	8-719-941-23	s DIODE DA204U
D604	8-719-941-23	s DIODE DA204U
D605	8-719-941-23	s DIODE DA204U
D606	8-719-941-23	s DIODE DA204U
D607	8-719-941-23	s DIODE DA204U
D608	8-719-941-23	s DIODE DA204U
D609	8-719-941-23	s DIODE DA204U
D610	8-719-941-23	s DIODE DA204U
D611	8-719-941-23	s DIODE DA204U
D612	8-719-941-23	s DIODE DA204U
D613	8-719-941-23	s DIODE DA204U
D614	8-719-941-23	s DIODE DA204U
D615	8-719-941-23	s DIODE DA204U
D616	8-719-123-82	s DIODE 1SS303-T1
D701	8-719-938-72	s DIODE SB01-05CP
D702	8-719-941-23	s DIODE DA204U
D703	8-719-941-23	s DIODE DA204U
D801	8-719-941-23	s DIODE DA204U
IC1	8-759-151-97	s IC UPD70320GJ-8-5BG
IC2	8-759-926-77	s IC SN74HC541NS
IC3	8-759-925-74	s IC TC74HC04NS
IC4	8-759-603-32	s IC M51958BL
IC5	8-759-043-34	s IC CXD8310M
IC6	8-752-337-78	s IC CXK58257AM-10L
IC7	8-759-065-11	o IC C010-PW2000SY-V202, EPROM
IC8	8-759-925-90	s IC SN74HC74NS
IC10	8-759-925-85	s IC SN74HC32NS
IC11	8-759-925-76	s IC SN74HC08NS
IC15	8-759-925-80	s IC SN74HC14NS
IC101	8-759-109-04	s IC UPD7201AC
IC102	8-759-009-10	s IC MC14069UBF
IC103	8-759-926-17	s IC SN74HC153NS
IC104	8-759-925-85	s IC SN74HC32NS
IC105	8-759-926-30	s IC AM26LS30PC
IC106	8-759-926-32	s IC AM26LS32PC

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC107	8-759-926-30	s IC AM26LS30PC
IC301	8-759-154-71	s IC CXD8176Q
IC302	8-759-938-68	s IC CXD1095Q
IC303	8-759-054-54	s IC SRM2016M10
IC401	8-759-154-71	s IC CXD8176Q
IC402	8-759-043-35	s IC CXD8311Q
IC403	8-759-071-54	s IC TMP91C640N-2305
IC404	8-759-009-51	s IC MC14538BF
IC405	8-759-500-93	s IC MB90061-111
IC406	8-759-054-54	s IC SRM2016M10
IC407	8-759-926-77	s IC SN74HC541NS
IC408	8-759-982-21	s IC RC78L05A
IC410	8-759-996-43	s IC RC4558PS
IC411	8-759-908-17	s IC TL082CPS
IC412	8-759-700-45	s IC NJM4556M-A
IC413	8-759-700-07	s IC NJM2903M
IC414	8-759-927-46	s IC SN74HC00NS
IC501	8-759-944-79	s IC CXD1132Q
IC502	8-759-925-76	s IC SN74HC08NS
IC504	8-759-925-85	s IC SN74HC32NS
IC505	8-759-009-51	s IC MC14538BF
IC506	8-759-300-71	s IC HD14053BFP
IC507	8-759-009-02	s IC MC14046BF
IC508	8-759-925-76	s IC SN74HC08NS
IC510	8-759-926-18	s IC SN74HC157ANS
IC511	8-759-938-68	s IC CXD1095Q
IC514	8-759-927-29	s IC SN74HC04NS
IC601	8-759-100-94	s IC UPC358G2
IC602	8-759-009-05	s IC MC14051BF
IC603	8-759-100-94	s IC UPC358G2
IC604	8-759-323-88	s IC HD6435328RA00F
IC605	8-759-925-76	s IC SN74HC08NS
IC606	8-759-925-85	s IC SN74HC32NS
IC607	8-759-085-11	o IC C010-PW2000SV-V212, EPROM
IC608	8-759-926-11	s IC SN74HC138NS
IC609	8-759-926-11	s IC SN74HC138NS
IC610	8-759-925-79	s IC SN74HC11ANS
IC611	8-759-925-83	s IC SN74HC27ANS
IC612	8-759-054-54	s IC SRM2016M10
IC613	8-759-925-74	s IC TC74HC04NS
IC615	8-759-938-68	s IC CXD1095Q
IC616	8-759-300-71	s IC HD14053BFP
IC618	8-759-926-77	s IC SN74HC541NS
IC619	8-759-926-77	s IC SN74HC541NS
IC620	8-759-926-49	s IC SN74HC245NS
IC621	8-759-300-71	s IC HD14053BFP
IC622	8-759-009-51	s IC MC14538BF
IC701	8-752-343-05	s IC CXD2202Q
IC702	8-759-300-71	s IC HD14053BFP
IC703	8-759-239-23	s IC TC74HC86AF
IC704	8-759-700-07	s IC NJM2903M
IC706	8-759-154-71	s IC CXD8176Q
#IC707	8-752-323-63	s IC CXK5816M-10L
IC709	8-759-925-76	s IC SN74HC08NS
IC710	8-752-831-22	s IC CXP80P116Q-1-024
IC711	8-759-100-95	s IC UPC324G2
IC801	8-759-100-95	s IC UPC324G2
IC802	8-759-141-05	s IC UPC4574G2
IC803	8-759-008-67	s IC MC14066BF

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC804	8-759-908-17	s IC TL082CPS
IC805	8-759-710-28	s IC NJM4565M-A
IC806	8-759-009-51	s IC MC14538BF
IC807	8-759-938-68	s IC CXD1095Q
IC808	8-759-908-17	s IC TL082CPS
IC809	8-759-925-90	s IC SN74HC74NS
IC810	8-759-700-07	s IC NJM2903M
L401	1-410-464-11	s INDUCTOR 3.3uH
L602	1-412-533-11	s INDUCTOR 47uH
L603	1-412-533-11	s INDUCTOR 47uH
Q401	8-729-905-12	s TRANSISTOR DTA144EU
Q402	8-729-117-32	s TRANSISTOR 2SC4177
Q404	8-729-905-12	s TRANSISTOR DTA144EU
Q405	8-729-209-07	s TRANSISTOR 2SC4213-B
Q406	8-729-117-72	s TRANSISTOR 2SC4178
Q407	8-729-117-72	s TRANSISTOR 2SC4178
Q408	8-729-209-07	s TRANSISTOR 2SC4213-B
Q409	8-729-209-07	s TRANSISTOR 2SC4213-B
Q410	8-729-905-18	s TRANSISTOR DTC144EU
Q411	8-729-109-44	s TRANSISTOR 2SK94
Q412	8-729-117-32	s TRANSISTOR 2SC4177
Q604	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q605	8-729-106-60	s TRANSISTOR 2SB1115A
Q606	8-729-117-72	s TRANSISTOR 2SC4178
Q701	8-729-905-18	s TRANSISTOR DTC144EU
Q702	8-729-905-18	s TRANSISTOR DTC144EU
Q703	8-729-117-32	s TRANSISTOR 2SC4177
Q704	8-729-117-32	s TRANSISTOR 2SC4177
Q705	8-729-117-32	s TRANSISTOR 2SC4177
Q706	8-729-117-32	s TRANSISTOR 2SC4177
Q707	8-729-117-32	s TRANSISTOR 2SC4177
Q708	8-729-905-18	s TRANSISTOR DTC144EU
Q709	8-729-905-18	s TRANSISTOR DTC144EU
Q710	8-729-905-18	s TRANSISTOR DTC144EU
Q711	8-729-905-18	s TRANSISTOR DTC144EU
Q801	8-729-905-18	s TRANSISTOR DTC144EU
Q802	8-729-209-07	s TRANSISTOR 2SC4213-B
Q803	8-729-209-07	s TRANSISTOR 2SC4213-B
Q805	8-729-905-18	s TRANSISTOR DTC144EU
R1	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R2	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R3	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R4	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R5	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R6	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R7	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R8	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R9	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R10	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R11	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R12	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R13	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R14	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R15	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R16	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R17	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R18	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R19	1-216-089-00	s METAL, CHIP 47K 5% 1/10W

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R20	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R21	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R22	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R23	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R24	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R25	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R26	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R27	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R28	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R29	1-216-680-11	s METAL, CHIP 16K 0.5% 1/10W
R30	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R51	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R52	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R53	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R54	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R55	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R56	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R57	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R58	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R59	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R60	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R61	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R62	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R63	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R64	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R65	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R67	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R68	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R69	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R70	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R71	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R72	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R73	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R74	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R75	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R101	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R102	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R103	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R104	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R105	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R106	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R107	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R108	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R109	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R111	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R112	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R113	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R114	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R115	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R116	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R117	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R118	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R119	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R120	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R121	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R122	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R123	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R124	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R125	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R301	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R302	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R303	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R304	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R305	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R306	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R307	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R308	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R309	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R310	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R311	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R312	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R313	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R314	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R315	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R316	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R319	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R320	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R321	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R322	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R323	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R324	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R325	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R330	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R333	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R334	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R335	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R336	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R337	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R338	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R339	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R340	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R341	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R342	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R343	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R400	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R401	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R418	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R419	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R420	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R421	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R422	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R423	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R424	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R425	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R426	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R427	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R428	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R429	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R430	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R431	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R432	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R433	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R434	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R435	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R436	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R437	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R438	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R441	1-216-097-00	s METAL, CHIP 100K 5% 1/10W

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R442	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R443	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R444	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R445	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R446	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R447	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R448	1-216-648-11	s METAL, CHIP 750 0.5% 1/10W
R450	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R451	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R452	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R453	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R454	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R456	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R457	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R458	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R459	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R460	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R461	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R462	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R463	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R464	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R465	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R466	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R467	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R468	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R469	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R470	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R471	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R472	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R473	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R474	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R475	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R476	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R477	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R478	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R479	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R480	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R481	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R482	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R483	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R484	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R485	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R486	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R487	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R488	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R489	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R490	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R491	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R492	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R493	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R494	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R495	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R496	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R497	1-216-295-00	s METAL, CHIP 0
R498	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R499	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R501	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R503	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R504	1-216-117-00	s METAL, CHIP 680K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R507	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R508	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R509	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R510	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R511	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R512	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R513	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R514	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R515	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R516	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R517	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R518	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R519	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R521	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R522	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R523	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R524	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R525	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R526	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R527	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R528	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R529	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R530	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R531	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R532	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R533	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R534	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R535	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R536	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R537	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R538	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R539	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R541	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R542	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R543	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R544	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R545	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R546	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R547	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R548	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R549	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R601	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R602	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R603	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R604	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R605	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R606	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R607	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R608	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R609	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R610	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R611	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R612	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R613	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R614	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R615	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R616	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R617	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R618	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R619	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R620	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R621	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R622	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R624	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R626	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R627	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R629	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R630	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R631	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R632	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R634	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R635	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R636	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R637	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R638	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R639	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R640	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R641	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R642	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R643	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R644	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R646	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R647	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R648	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R649	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R650	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R651	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R653	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R654	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R655	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R656	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R657	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R658	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R661	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R662	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R663	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R664	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R668	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R669	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R670	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R671	1-216-295-00	s METAL, CHIP 0
R672	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R673	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R674	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R675	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R676	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R677	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R678	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R679	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R680	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R701	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R702	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R703	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R704	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R705	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R706	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R707	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R708	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R709	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R710	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R711	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R712	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R713	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R714	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R715	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R716	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R717	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R718	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R719	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R720	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R721	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R722	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R723	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R724	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R725	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R726	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R727	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R728	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R729	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R730	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R731	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R732	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R733	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R734	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R735	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R736	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R737	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R738	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R739	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R740	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R741	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R742	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R743	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R744	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R745	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R746	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R747	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R748	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R749	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R750	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R751	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R752	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R753	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R754	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R755	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R756	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R757	1-216-295-00	s METAL, CHIP 0
R758	1-216-295-00	s METAL, CHIP 0
R759	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R760	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R761	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R762	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R763	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R764	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R765	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R766	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R767	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R768	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R769	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R770	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R771	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R772	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R773	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R774	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R775	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R776	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R777	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R778	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R779	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R780	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R781	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R782	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R783	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R784	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R785	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R786	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R787	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R788	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R789	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R790	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R791	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R792	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R793	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R794	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R795	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R796	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R797	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R798	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R799	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R800	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R801	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R802	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R803	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R804	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R805	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R806	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R807	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R808	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R809	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R810	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R811	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R812	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R813	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R814	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R815	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R816	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R817	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R818	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R819	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R820	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R822	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R823	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R825	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R826	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R827	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R828	1-216-085-00	s METAL, CHIP 33K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R829	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R830	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R831	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R832	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R833	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R836	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R837	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R838	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R839	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R840	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R841	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R842	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R843	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R844	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R845	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R846	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R847	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R848	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R849	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R850	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R851	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R852	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R853	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R854	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R855	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R856	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R857	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R858	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R859	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R860	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R861	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R862	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R863	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R864	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R865	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R866	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R867	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R868	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R869	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R870	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R871	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R872	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R873	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R874	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R875	1-216-295-00	s METAL, CHIP 0
R876	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R877	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R878	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R879	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R880	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R881	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R882	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R883	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R900	1-216-295-00	s METAL, CHIP 0
S1	1-553-812-00	s SWITCH, PUSH
S2	1-571-967-11	s SWITCH, DIP 8-CKT
S302	1-553-812-00	s SWITCH, PUSH
S303	1-553-812-00	s SWITCH, PUSH
S304	1-553-812-00	s SWITCH, PUSH

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
S601	1-571-967-11	s SWITCH, DIP 8-CKT
S602	1-553-812-00	s SWITCH, PUSH
X1	1-577-076-11	s CRYSTAL 16.00MHz
X101	1-567-870-11	s RESONATOR, CERAMIC 614KHz
X401	1-567-132-00	s RESONATOR, CERAMIC 8.00MHz
X402	1-579-458-11	s CRYSTAL 17.734475MHz
X501	1-567-867-11	s CRYSTAL 14.500MHz
X601	1-577-121-11	s CRYSTAL 20.00MHz
X701	1-577-121-11	s CRYSTAL 20.00MHz
X702	1-577-076-11	s CRYSTAL 16.00MHz

SW-444B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-043-31	o PRINTED CIRCUIT BOARD, SW-444A
1pc	3-171-416-01	o HOLDER, LED
1pc	3-717-672-01	o STOPPER, KY
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN509	1-568-951-11	o CONNECTOR 2P, MALE
CN510	1-568-934-11	o CONNECTOR 7P, MALE
CN511	1-568-951-91	o CONNECTOR 2P, MALE
CN512	1-566-761-11	o CONNECTOR 6P, MALE
CN513	1-506-481-11	s CONNECTOR 2P, MALE
D1	8-719-820-28	s LED TLG-256, GRN
D2	8-719-820-28	s LED TLG-256, GRN
D3	8-719-820-28	s LED TLG-256, GRN
D4	8-719-820-28	s LED TLG-256, GRN
D5	8-719-820-28	s LED TLG-256, GRN
D6	8-719-820-27	s LED TLY-256, YEL
D7	8-719-820-27	s LED TLY-256, YEL
R1	1-249-411-11	s CARBON 330 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W
R3	1-249-411-11	s CARBON 330 5% 1/4W
R4	1-249-409-11	s CARBON 220 5% 1/4W
R5	1-249-411-11	s CARBON 330 5% 1/4W
SW1	1-516-995-00	s SWITCH, LEVER SLIDE
SW4	1-516-961-00	s SWITCH, LEVER SLIDE

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

TBC-18P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6727-378-A	o MOUNTED CIRCUIT BOARD, TBC-18P
1pc	3-171-453-03	o PLATE (L), SHIELD, CARD
1pc	3-171-454-02	o SHEET (L), CARD
1pc	7-621-759-45	s SCREW +PSW 2.6X6
2pcs	2-251-622-11	s LEVER, PC BOARD
C1	1-126-101-11	s ELECT 100uF 20% 16V
C2	1-126-101-11	s ELECT 100uF 20% 16V
C3	1-126-101-11	s ELECT 100uF 20% 16V
C4	1-126-101-11	s ELECT 100uF 20% 16V
C5	1-126-101-11	s ELECT 100uF 20% 16V
C6	1-126-101-11	s ELECT 100uF 20% 16V
C7	1-126-101-11	s ELECT 100uF 20% 16V
C8	1-126-101-11	s ELECT 100uF 20% 16V
C9	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-126-101-11	s ELECT 100uF 20% 16V
C12	1-126-101-11	s ELECT 100uF 20% 16V
C13	1-126-101-11	s ELECT 100uF 20% 16V
C14	1-126-101-11	s ELECT 100uF 20% 16V
C15	1-126-101-11	s ELECT 100uF 20% 16V
C16	1-126-101-11	s ELECT 100uF 20% 16V
C17	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C18	1-126-101-11	s ELECT 100uF 20% 16V
C19	1-126-101-11	s ELECT 100uF 20% 16V
C20	1-126-101-11	s ELECT 100uF 20% 16V
C100	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C101	1-124-477-11	s ELECT 47uF 20% 25V
C102	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C103	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C104	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C105	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C106	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C107	1-124-477-11	s ELECT 47uF 20% 25V
C108	1-163-035-00	s CERAMIC, CHIP 0.047uF 50V
C109	1-124-903-11	s ELECT 1uF 20% 50V
C110	1-124-907-11	s ELECT 10uF 20% 50V
C119	1-124-477-11	s ELECT 47uF 20% 25V
C120	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C121	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C122	1-124-477-11	s ELECT 47uF 20% 25V
C124	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C126	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C127	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C128	1-126-176-11	s ELECT 220uF 20% 10V
C129	1-124-477-11	s ELECT 47uF 20% 25V
C130	1-124-477-11	s ELECT 47uF 20% 25V
C131	1-126-101-11	s ELECT 100uF 20% 16V
C132	1-124-907-11	s ELECT 10uF 20% 50V
C200	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C201	1-124-477-11	s ELECT 47uF 20% 25V
C202	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C203	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C204	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C205	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C206	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C207	1-124-477-11	s ELECT 47uF 20% 25V
C208	1-163-035-00	s CERAMIC, CHIP 0.047uF 50V
C209	1-124-903-11	s ELECT 1uF 20% 50V
C210	1-124-907-11	s ELECT 10uF 20% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C219	1-124-477-11	s ELECT 47uF 20% 25V
C221	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C222	1-124-477-11	s ELECT 47uF 20% 25V
C224	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C225	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C226	1-126-176-11	s ELECT 220uF 20% 10V
C227	1-124-477-11	s ELECT 47uF 20% 25V
C228	1-124-477-11	s ELECT 47uF 20% 25V
C229	1-124-907-11	s ELECT 10uF 20% 50V
C231	1-126-101-11	s ELECT 100uF 20% 16V
C300	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C302	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C303	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C304	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C305	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C306	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C307	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C308	1-124-903-11	s ELECT 1uF 20% 50V
C309	1-124-903-11	s ELECT 1uF 20% 50V
C310	1-124-927-11	s ELECT 4.7uF 20% 100V
C311	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C312	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C313	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C314	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C315	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C316	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C318	1-124-477-11	s ELECT 47uF 20% 25V
C319	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C320	1-124-477-11	s ELECT 47uF 20% 25V
C321	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C322	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C323	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C324	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C325	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C326	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C327	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C328	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C329	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C330	1-126-101-11	s ELECT 100uF 20% 16V
C331	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C333	1-124-907-11	s ELECT 10uF 20% 50V
C334	1-124-925-11	s ELECT 2.2uF 20% 100V
C335	1-164-222-11	s CERAMIC, CHIP 0.22uF 25V
C336	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C337	1-124-927-11	s ELECT 4.7uF 20% 100V
C338	1-164-222-11	s CERAMIC, CHIP 0.22uF 25V
C339	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C340	1-124-477-11	s ELECT 47uF 20% 25V
C341	1-124-477-11	s ELECT 47uF 20% 25V
C342	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C344	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C345	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C346	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C347	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C348	1-124-477-11	s ELECT 47uF 20% 25V
C349	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C350	1-124-477-11	s ELECT 47uF 20% 25V
C351	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C352	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

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Ref. No. or Q'ty	Part No.	SP Description
C353	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C357	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C358	1-124-925-11	s ELECT 2.2uF 20% 100V
C359	1-124-927-11	s ELECT 4.7uF 20% 100V
C360	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C361	1-124-477-11	s ELECT 47uF 20% 25V
C362	1-124-477-11	s ELECT 47uF 20% 25V
C363	1-124-477-11	s ELECT 47uF 20% 25V
C364	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C365	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C366	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C371	1-124-477-11	s ELECT 47uF 20% 25V
C372	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C373	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C374	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C375	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C376	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C377	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C378	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C379	1-126-101-11	s ELECT 100uF 20% 16V
C380	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C381	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C382	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C383	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C384	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C385	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C400	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C401	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C402	1-163-245-11	s CERAMIC, CHIP 56PF 5% 50V
C403	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C404	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C405	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C406	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C407	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C408	1-124-903-11	s ELECT 1uF 20% 50V
C410	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C411	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C412	1-124-477-11	s ELECT 47uF 20% 25V
C414	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C415	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C417	1-163-106-00	s CERAMIC, CHIP 36PF 5% 50V
C418	1-163-120-00	s CERAMIC, CHIP 130PF 5% 50V
C419	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C420	1-124-477-11	s ELECT 47uF 20% 25V
C421	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C422	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C423	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C424	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C426	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C427	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C428	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C429	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C430	1-126-101-11	s ELECT 100uF 20% 16V
C431	1-124-907-11	s ELECT 10uF 20% 50V
C432	1-124-925-11	s ELECT 2.2uF 20% 100V
C433	1-164-222-11	s CERAMIC, CHIP 0.22uF 25V
C434	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C435	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C436	1-124-477-11	s ELECT 47uF 20% 25V

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Ref. No. or Q'ty	Part No.	SP Description
C437	1-124-477-11	s ELECT 47uF 20% 25V
C438	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C440	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C441	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C442	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C443	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C444	1-124-477-11	s ELECT 47uF 20% 25V
C445	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C446	1-124-477-11	s ELECT 47uF 20% 25V
C447	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C448	1-124-477-11	s ELECT 47uF 20% 25V
C449	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C451	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C452	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C453	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C454	1-124-925-11	s ELECT 2.2uF 20% 100V
C455	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C456	1-124-477-11	s ELECT 47uF 20% 25V
C457	1-124-477-11	s ELECT 47uF 20% 25V
C458	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C459	1-163-102-00	s CERAMIC, CHIP 24PF 5% 50V
C461	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C462	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C463	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C464	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C467	1-124-477-11	s ELECT 47uF 20% 25V
C468	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C469	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C470	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C471	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C472	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C473	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C474	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C475	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C476	1-126-101-11	s ELECT 100uF 20% 16V
C477	1-124-903-11	s ELECT 1uF 20% 50V
C478	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C479	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C500	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C501	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C502	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C503	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C504	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C505	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C506	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C507	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C508	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C509	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C510	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C511	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C512	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C513	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C514	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C515	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C516	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C517	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C518	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C519	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C520	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

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Ref. No. or Q'ty	Part No.	SP Description
C521	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C524	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C527	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C528	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C529	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C530	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C531	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C532	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C533	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C534	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C535	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C536	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C537	1-124-477-11	s ELECT 47uF 20% 25V
C538	1-124-477-11	s ELECT 47uF 20% 25V
C540	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C541	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C542	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C543	1-124-477-11	s ELECT 47uF 20% 25V
C545	1-124-477-11	s ELECT 47uF 20% 25V
C546	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C547	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C548	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C549	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C550	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C600	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C603	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C604	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C605	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C606	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C607	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C608	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C609	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C610	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C611	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C612	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C614	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C615	1-124-907-11	s ELECT 10uF 20% 50V
C616	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C617	1-123-382-00	s ELECT 3.3uF 20% 100V
C618	1-123-382-00	s ELECT 3.3uF 20% 100V
C620	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C621	1-124-925-11	s ELECT 2.2uF 20% 100V
C622	1-124-907-11	s ELECT 10uF 20% 50V
C623	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C624	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C625	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C626	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C627	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C628	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C629	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C700	1-124-903-11	s ELECT 1uF 20% 50V
C701	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C702	1-124-477-11	s ELECT 47uF 20% 25V
C703	1-124-477-11	s ELECT 47uF 20% 25V
C704	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C705	1-124-903-11	s ELECT 1uF 20% 50V
C706	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C707	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C708	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V

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Ref. No. or Q'ty	Part No.	SP Description
C709	1-124-477-11	s ELECT 47uF 20% 25V
C710	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C711	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C712	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C713	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C714	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C715	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C716	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C717	1-124-477-11	s ELECT 47uF 20% 25V
C718	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C719	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C720	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C721	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C722	1-124-903-11	s ELECT 1uF 20% 50V
C723	1-124-477-11	s ELECT 47uF 20% 25V
C724	1-124-477-11	s ELECT 47uF 20% 25V
C725	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C726	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C727	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C728	1-130-489-00	s MYLAR 0.033uF 5% 50V
C729	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C730	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C731	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C732	1-124-477-11	s ELECT 47uF 20% 25V
C733	1-124-907-11	s ELECT 10uF 20% 50V
C734	1-124-907-11	s ELECT 10uF 20% 50V
C735	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C736	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C737	1-124-477-11	s ELECT 47uF 20% 25V
C738	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C739	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C740	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C741	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C742	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C743	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C744	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C745	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C746	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C747	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C748	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C749	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C750	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C751	1-131-347-00	s TANTALUM 1uF 10% 35V
C752	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C753	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C754	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C755	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C756	1-124-477-11	s ELECT 47uF 20% 25V
C757	1-131-363-00	s TANTALUM 4.7uF 10% 20V
C758	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C766	1-124-477-11	s ELECT 47uF 20% 25V
C769	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C770	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C771	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C772	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C773	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C774	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C775	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C778	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C779	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C780	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C781	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C782	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C783	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C784	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C785	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C786	1-124-477-11	s ELECT 47uF 20% 25V
C788	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C789	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C790	1-124-477-11	s ELECT 47uF 20% 25V
C791	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C793	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C794	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C795	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C796	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C797	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C798	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C799	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C800	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C801	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C802	1-124-477-11	s ELECT 47uF 20% 25V
C803	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C804	1-124-477-11	s ELECT 47uF 20% 25V
C805	1-124-477-11	s ELECT 47uF 20% 25V
C806	1-124-477-11	s ELECT 47uF 20% 25V
C807	1-124-903-11	s ELECT 1uF 20% 50V
C809	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C810	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C811	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C815	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C816	1-124-477-11	s ELECT 47uF 20% 25V
C819	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C820	1-162-718-11	s CERAMIC 220PF 1% 50V
C871	1-124-903-11	s ELECT 1uF 20% 50V
CN1	1-506-471-11	s CONNECTOR 6P, MALE
CN2	1-506-471-11	s CONNECTOR 6P, MALE
CN105	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
CN106	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
CP700	1-577-295-11	s VCO, CRYSTAL 17.734475MHZ
CP701	1-577-134-11	s VCO, CRYSTAL 13.5MHZ
D1	8-719-941-04	s DIODE SB007-03CP
D2	8-719-941-04	s DIODE SB007-03CP
D3	8-719-941-04	s DIODE SB007-03CP
D4	8-719-941-04	s DIODE SB007-03CP
D100	8-719-941-23	s DIODE DA204U
D101	8-719-123-85	s DIODE 1SS304
D200	8-719-941-23	s DIODE DA204U
D300	8-719-123-82	s DIODE 1SS303-T1
D301	8-719-941-23	s DIODE DA204U
D302	8-719-915-30	s DIODE, VARICAP FC53M
D303	8-719-915-30	s DIODE, VARICAP FC53M
D305	8-719-123-82	s DIODE 1SS303-T1
D306	8-719-105-38	s DIODE RD3.0M-B1
D307	8-719-123-82	s DIODE 1SS303-T1
D309	8-719-911-19	s DIODE 1SS119
D402	8-719-941-23	s DIODE DA204U
D403	8-719-915-30	s DIODE, VARICAP FC53M

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D404	8-719-915-30	s DIODE, VARICAP FC53M
D406	8-719-123-82	s DIODE 1SS303-T1
D407	8-719-105-38	s DIODE RD3.0M-B1
D408	8-719-123-82	s DIODE 1SS303-T1
D500	8-719-123-85	s DIODE 1SS304
D501	8-719-123-82	s DIODE 1SS303-T1
D502	8-719-123-82	s DIODE 1SS303-T1
D503	8-719-123-82	s DIODE 1SS303-T1
D504	8-719-123-82	s DIODE 1SS303-T1
D506	8-719-123-82	s DIODE 1SS303-T1
D600	8-719-123-82	s DIODE 1SS303-T1
D601	8-719-123-82	s DIODE 1SS303-T1
D602	8-719-123-82	s DIODE 1SS303-T1
D700	8-719-123-82	s DIODE 1SS303-T1
D701	8-719-123-82	s DIODE 1SS303-T1
D702	8-719-123-82	s DIODE 1SS303-T1
D706	8-719-123-82	s DIODE 1SS303-T1
FL500	1-239-134-21	s FILTER, LOW-PASS
FL501	1-239-136-21	s FILTER, LOW-PASS
FL502	1-239-136-21	s FILTER, LOW-PASS
FL600	1-236-091-11	s FILTER, LOW-PASS
FL700	1-236-091-11	s FILTER, LOW-PASS
IC1	8-759-982-38	s IC UPC7905H
IC2	8-759-982-05	s IC RC7805FA
IC3	8-759-982-05	s IC RC7805FA
IC4	8-759-982-05	s IC RC7805FA
IC5	8-759-982-38	s IC UPC7905H
IC6	8-759-982-25	s IC RC78L09A
IC7	8-759-982-25	s IC RC78L09A
IC8	8-759-982-21	s IC RC78L05A
IC9	8-759-982-21	s IC RC78L05A
IC100	8-759-030-74	s IC SC14S66FEL
IC102	8-759-908-17	s IC TL082CPS
IC103	8-759-908-15	s IC TL431CLP
IC104	8-752-334-55	s IC CXD1175M
IC105	8-759-702-08	s IC NJM360M
IC200	8-759-030-74	s IC SC14S66FEL
IC201	8-759-908-17	s IC TL082CPS
IC203	8-759-908-15	s IC TL431CLP
IC204	8-752-334-55	s IC CXD1175M
IC300	8-759-996-43	s IC RC4558PS
IC301	8-752-339-03	s IC CXD2207Q
IC302	8-759-996-43	s IC RC4558PS
IC303	8-759-907-81	s IC SN74LS221NS
IC304	8-759-941-17	s IC SN74LS06NS
IC305	8-759-908-17	s IC TL082CPS
IC306	8-759-030-74	s IC SC14S66FEL
IC307	8-759-973-82	s IC TLC549IPS
IC308	8-759-991-85	s IC 74F00SJ
IC309	8-759-711-52	s IC NJU8001M
IC310	8-759-996-43	s IC RC4558PS
IC311	8-759-996-43	s IC RC4558PS
IC312	8-759-941-27	s IC MB4002PF
IC313	8-759-702-08	s IC NJM360M
IC401	8-759-996-43	s IC RC4558PS
IC402	8-752-339-03	s IC CXD2207Q
IC403	8-759-907-81	s IC SN74LS221NS
IC404	8-759-941-17	s IC SN74LS06NS

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC405	8-759-908-17	s IC TL082CPS
IC406	8-759-030-74	s IC SC14S66FEL
IC407	8-759-973-82	s IC TLC5491PS
IC408	8-759-991-85	s IC 74F00SJ
IC409	8-759-711-52	s IC NJU8001M
IC410	8-759-996-43	s IC RC4558PS
IC411	8-759-030-74	s IC SC14S66FEL
IC412	8-759-926-24	s IC SN74HC164NS
IC413	8-759-996-43	s IC RC4558PS
IC414	8-759-941-27	s IC MB4002PF
IC415	8-759-702-08	s IC NJM360M
IC500	8-759-930-50	s IC SN74LS157NS
IC501	8-759-055-71	s IC CXD8313Q
IC502	8-759-055-71	s IC CXD8313Q
IC503	8-752-340-75	s IC CXK1206AM
IC504	8-752-340-75	s IC CXK1206AM
IC505	8-752-340-75	s IC CXK1206AM
IC506	8-752-340-75	s IC CXK1206AM
IC507	8-752-341-32	s IC CXD2209Q
IC508	8-759-513-78	s IC CXD8160Q
IC509	8-759-300-71	s IC HD14053BFP
IC510	8-759-996-43	s IC RC4558PS
IC511	8-759-996-43	s IC RC4558PS
IC512	8-759-996-43	s IC RC4558PS
IC513	8-752-352-34	s IC CXD1171M
IC514	8-752-052-77	s IC CXA1450M
IC515	8-752-352-34	s IC CXD1171M
IC516	8-752-352-34	s IC CXD1171M
IC517	8-752-340-57	s IC CXK1203Q
IC518	8-752-340-57	s IC CXK1203Q
IC601	8-752-334-64	s IC CXD1171M
IC602	8-759-702-08	s IC NJM360M
IC603	8-759-239-23	s IC TC74HC86AF
IC605	8-752-306-51	s IC CX23065A
IC607	8-759-030-74	s IC SC14S66FEL
IC608	8-759-908-17	s IC TL082CPS
IC609	8-759-100-93	s IC UPC393G2
IC610	8-759-206-28	s IC TC74HC123F
IC611	8-759-925-90	s IC SN74HC74NS
IC612	8-759-925-90	s IC SN74HC74NS
IC613	8-759-925-72	s IC SN74HC02NS
IC700	8-759-300-71	s IC HD14053BFP
IC701	8-759-925-74	s IC TC74HC04NS
IC702	8-759-908-15	s IC TL431CLP
IC703	8-759-009-05	s IC MC14051BF
IC704	8-752-052-73	s IC CXA1451M
IC705	8-759-996-43	s IC RC4558PS
IC707	8-759-908-17	s IC TL082CPS
IC709	8-759-908-17	s IC TL082CPS
IC710	8-759-105-49	s IC UPC319G2
IC711	8-759-702-08	s IC NJM360M
IC712	8-759-996-43	s IC RC4558PS
IC713	8-759-908-15	s IC TL431CLP
IC714	8-759-206-28	s IC TC74HC123F
IC715	8-759-250-81	s IC TC5081AP
IC716	8-759-300-71	s IC HD14053BFP
IC717	8-759-041-53	s IC MC68HC05N4-SC406682
IC718	8-752-335-47	s IC CXD1216M
IC719	8-759-925-90	s IC SN74HC74NS

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC720	8-759-206-28	s IC TC74HC123F
IC721	8-759-926-35	s IC SN74HC191NS
IC722	8-759-519-49	s IC CXD8165Q
IC723	8-752-334-64	s IC CXD1171M
IC724	8-752-334-64	s IC CXD1171M
IC725	8-759-702-08	s IC NJM360M
IC726	8-759-300-71	s IC HD14053BFP
IC727	8-752-052-77	s IC CXA1450M
IC728	8-759-980-04	s IC LM311PS
IC729	8-752-052-77	s IC CXA1450M
IC800	8-759-925-76	s IC SN74HC08NS
IC801	8-759-031-84	s IC TC7S04F
IC802	8-759-031-84	s IC TC7S04F
L1	1-412-533-11	s INDUCTOR 47uH
L2	1-412-533-11	s INDUCTOR 47uH
L3	1-412-533-31	s INDUCTOR 47uH
L4	1-412-533-11	s INDUCTOR 47uH
L5	1-412-533-11	s INDUCTOR 47uH
L100	1-410-478-11	s INDUCTOR 47uH
L101	1-410-476-11	s INDUCTOR 33uH
L102	1-410-478-11	s INDUCTOR 47uH
L105	1-408-419-00	s INDUCTOR 68uH
L106	1-410-478-11	s INDUCTOR 47uH
L107	1-410-478-11	s INDUCTOR 47uH
L200	1-410-478-11	s INDUCTOR 47uH
L201	1-410-476-11	s INDUCTOR 33uH
L202	1-410-478-11	s INDUCTOR 47uH
L205	1-410-478-11	s INDUCTOR 47uH
L206	1-410-478-11	s INDUCTOR 47uH
L300	1-408-419-00	s INDUCTOR 68uH
L301	1-408-427-00	s INDUCTOR 330uH
L302	1-410-492-11	s INDUCTOR 680uH
L303	1-410-478-11	s INDUCTOR 47uH
L304	1-410-478-11	s INDUCTOR 47uH
L305	1-410-478-11	s INDUCTOR 47uH
L306	1-410-478-11	s INDUCTOR 47uH
L307	1-410-478-11	s INDUCTOR 47uH
L308	1-410-478-11	s INDUCTOR 47uH
L400	1-408-416-00	s INDUCTOR 39uH
L401	1-410-478-11	s INDUCTOR 47uH
L402	1-410-478-11	s INDUCTOR 47uH
L403	1-410-482-31	s INDUCTOR 100uH
L404	1-408-425-00	s INDUCTOR 220uH
L405	1-410-478-11	s INDUCTOR 47uH
L406	1-410-478-11	s INDUCTOR 47uH
L407	1-410-478-11	s INDUCTOR 47uH
L408	1-410-478-11	s INDUCTOR 47uH
L409	1-408-411-00	s INDUCTOR 15uH
L410	1-410-476-11	s INDUCTOR 33uH
L503	1-410-478-11	s INDUCTOR 47uH
L504	1-410-478-11	s INDUCTOR 47uH
L506	1-410-478-11	s INDUCTOR 47uH
L508	1-410-478-11	s INDUCTOR 47uH
L700	1-408-420-00	s INDUCTOR 82uH
L701	1-410-482-31	s INDUCTOR 100uH
L702	1-410-478-11	s INDUCTOR 47uH
L703	1-410-478-11	s INDUCTOR 47uH
L704	1-408-419-00	s INDUCTOR 68uH

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

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Ref. No. or Q'ty	Part No.	SP Description
L705	1-410-478-11	s INDUCTOR 47uH
L706	1-410-478-11	s INDUCTOR 47uH
L708	1-410-478-11	s INDUCTOR 47uH
L713	1-410-478-11	s INDUCTOR 47uH
L715	1-410-478-11	s INDUCTOR 47uH
L717	1-410-478-11	s INDUCTOR 47uH
L718	1-410-478-11	s INDUCTOR 47uH
L719	1-410-478-11	s INDUCTOR 47uH
LV300	1-407-569-00	s COIL, VAR 10UH
LV400	1-407-569-00	s COIL, VAR 10UH
Q100	8-729-117-32	s TRANSISTOR 2SC4177
Q101	8-729-117-32	s TRANSISTOR 2SC4177
Q102	8-729-117-32	s TRANSISTOR 2SC4177
Q103	8-729-118-56	s TRANSISTOR 2SK852-X2
Q104	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q200	8-729-117-32	s TRANSISTOR 2SC4177
Q201	8-729-117-32	s TRANSISTOR 2SC4177
Q202	8-729-117-32	s TRANSISTOR 2SC4177
Q203	8-729-118-56	s TRANSISTOR 2SK852-X2
Q301	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q302	8-729-117-32	s TRANSISTOR 2SC4177
Q304	8-729-117-32	s TRANSISTOR 2SC4177
Q305	8-729-117-32	s TRANSISTOR 2SC4177
Q306	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q307	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q308	8-729-117-32	s TRANSISTOR 2SC4177
Q401	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q402	8-729-117-32	s TRANSISTOR 2SC4177
Q404	8-729-117-32	s TRANSISTOR 2SC4177
Q405	8-729-117-32	s TRANSISTOR 2SC4177
Q406	8-729-117-32	s TRANSISTOR 2SC4177
Q407	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q408	8-729-117-32	s TRANSISTOR 2SC4177
Q428	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q500	8-729-117-32	s TRANSISTOR 2SC4177
Q501	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q502	8-729-117-32	s TRANSISTOR 2SC4177
Q503	8-729-117-32	s TRANSISTOR 2SC4177
Q600	8-729-905-18	s TRANSISTOR DTC144EU
Q601	8-729-905-18	s TRANSISTOR DTC144EU
Q602	8-729-905-18	s TRANSISTOR DTC144EU
Q700	8-729-117-32	s TRANSISTOR 2SC4177
Q702	8-729-117-32	s TRANSISTOR 2SC4177
Q703	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q704	8-729-118-56	s TRANSISTOR 2SK852-X2
Q705	8-729-118-56	s TRANSISTOR 2SK852-X2
Q706	8-729-117-32	s TRANSISTOR 2SC4177
Q707	8-729-117-32	s TRANSISTOR 2SC4177
Q708	8-729-117-32	s TRANSISTOR 2SC4177
Q709	8-729-117-32	s TRANSISTOR 2SC4177
Q714	8-729-117-32	s TRANSISTOR 2SC4177
Q715	8-729-117-32	s TRANSISTOR 2SC4177
Q717	8-729-117-32	s TRANSISTOR 2SC4177
Q718	8-729-117-32	s TRANSISTOR 2SC4177
Q719	8-729-117-32	s TRANSISTOR 2SC4177
R100	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R101	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R103	1-216-041-00	s METAL, CHIP 470 5% 1/10W

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R104	1-216-633-11	s METAL, CHIP 180 0.5% 1/10W
R105	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R106	1-216-652-11	s METAL, CHIP 1.1K 0.5% 1/10W
R107	1-216-652-11	s METAL, CHIP 1.1K 0.5% 1/10W
R108	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R109	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R111	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R112	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R113	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R114	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R115	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R124	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R126	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R127	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R128	1-216-093-00	s METAL, CHIP 68K 5% 1/10W
R129	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R130	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R131	1-216-295-00	s METAL, CHIP 0
R132	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R133	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R134	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R200	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R201	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R203	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R204	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R205	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R206	1-216-652-11	s METAL, CHIP 1.1K 0.5% 1/10W
R207	1-216-652-11	s METAL, CHIP 1.1K 0.5% 1/10W
R208	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R209	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R210	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R211	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R212	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R213	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R214	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R215	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R224	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R225	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R226	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R227	1-216-295-00	s METAL, CHIP 0
R228	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R300	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R301	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R302	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R303	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R305	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R306	1-216-117-00	s METAL, CHIP 680K 5% 1/10W
R307	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R308	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R309	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R310	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R311	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R312	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R313	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R314	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R317	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R318	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R319	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R320	1-216-695-11	s METAL, CHIP 68K 0.5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R321	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R323	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R325	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R326	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R327	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R329	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R330	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R331	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R332	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R333	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R334	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R337	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R338	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R339	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R340	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R341	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R342	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R343	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R344	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R345	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R346	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R347	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R348	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R349	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R350	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R351	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R352	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R353	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R354	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R355	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R356	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R357	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R358	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R359	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R362	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R363	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R364	1-216-093-00	s METAL, CHIP 68K 5% 1/10W
R365	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R366	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R367	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R368	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R369	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R370	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R371	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R372	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R373	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R374	1-216-295-00	s METAL, CHIP 0
R375	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R376	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R377	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R378	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R380	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R381	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R382	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R383	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R384	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R385	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R386	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R387	1-216-025-00	s METAL, CHIP 100 5% 1/10W

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R388	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R389	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R391	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R392	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R393	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R394	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R395	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R396	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R397	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R403	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R404	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R405	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R407	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R409	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R410	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R411	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R412	1-216-117-00	s METAL, CHIP 680K 5% 1/10W
R413	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R414	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R415	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R416	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R417	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R418	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R419	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R421	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R422	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R425	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R426	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R427	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R428	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R429	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R430	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R431	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R434	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R435	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R436	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R438	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R440	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R442	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R443	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R447	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R448	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R450	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R452	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R453	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R454	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R455	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R456	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R457	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R458	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R459	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R460	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R461	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R462	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R463	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R464	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R467	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R468	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R470	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R471	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R472	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R473	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R474	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R475	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R476	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R477	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R478	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R479	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R481	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R482	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R483	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R484	1-216-295-00	s METAL, CHIP 0
R485	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R486	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R487	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R488	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R489	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R491	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R492	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R493	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R494	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R495	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R496	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R497	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R498	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R500	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R501	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R502	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R503	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R504	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R505	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R506	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R507	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R508	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R509	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R510	1-216-295-00	s METAL, CHIP 0
R511	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R512	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R514	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R515	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R517	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R518	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R519	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R520	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R521	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R522	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R523	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R527	1-216-295-00	s METAL, CHIP 0
R529	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R530	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R531	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R532	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R533	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R534	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R535	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R536	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R537	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R538	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R539	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R540	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R541	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R542	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R543	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R544	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R545	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R546	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R547	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R548	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R549	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R552	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R553	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R554	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R555	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R556	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R557	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R558	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R559	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R560	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R561	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R562	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R563	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R564	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R565	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R566	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R567	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R568	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R569	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R570	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R571	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R572	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R573	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R574	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R575	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R576	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R577	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R578	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R579	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R600	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R601	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R602	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R603	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R604	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R605	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R606	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R607	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R610	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R612	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R613	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R614	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R615	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R616	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R617	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R618	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R619	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R620	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R621	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R622	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R623	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R624	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R625	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R626	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R627	1-216-295-00	s METAL, CHIP 0
R628	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R629	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R631	1-216-295-00	s METAL, CHIP 0
R632	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R700	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R701	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R702	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R703	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R704	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R705	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R712	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R713	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R715	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R716	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R717	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R718	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R719	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R720	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R721	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R722	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R723	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R724	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R725	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R726	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R727	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R728	1-216-674-11	s METAL, CHIP 9.1K 0.5% 1/10W
R729	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R730	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R731	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R732	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R734	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R735	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R736	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R737	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R738	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R739	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R741	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R743	1-216-047-00	s METAL, CHIP 820 5% 1/10W
R745	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R747	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R748	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R749	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R750	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R751	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R752	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R753	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R754	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R755	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R756	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R757	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R758	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R759	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R760	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R761	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R762	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R763	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R764	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R765	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R766	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R768	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R769	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R770	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R771	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R772	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R773	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R774	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R775	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R776	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R777	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R778	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R779	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R780	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R781	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R782	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R784	1-216-295-00	s METAL, CHIP 0
R786	1-216-295-00	s METAL, CHIP 0
R787	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R788	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R789	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R790	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R791	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R792	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R793	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R794	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R796	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R797	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R802	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R804	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R805	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R806	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R807	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R808	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R809	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R810	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R811	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R812	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R813	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R814	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R815	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R816	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R817	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R818	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R819	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R821	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R822	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R823	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R824	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R825	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R826	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R827	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R828	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R829	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R830	1-216-041-00	s METAL, CHIP 470 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R831	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R832	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R833	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R834	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R835	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R836	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R837	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R838	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R839	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R840	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R841	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R842	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R843	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R844	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R845	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R846	1-216-101-00	s METAL, CHIP 150K 5% 1/10W
R847	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R848	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R849	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R850	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R851	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R852	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R853	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R854	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R855	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R856	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R857	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R858	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R859	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R860	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R865	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R866	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R867	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R869	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R870	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R871	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R872	1-216-295-00	s METAL, CHIP 0
R873	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R874	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R875	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
RV100	1-238-796-11	s RES, ADJ METAL 100
RV200	1-238-796-11	s RES, ADJ METAL 100
RV301	1-238-801-11	s RES, ADJ METAL 5K
RV302	1-238-804-11	s RES, ADJ METAL 50K
RV303	1-238-803-11	s RES, ADJ METAL 20K
RV307	1-238-801-11	s RES, ADJ METAL 5K
RV400	1-238-801-11	s RES, ADJ METAL 5K
RV401	1-238-801-11	s RES, ADJ METAL 5K
RV402	1-238-804-11	s RES, ADJ METAL 50K
RV403	1-238-801-11	s RES, ADJ METAL 5K
RV500	1-238-786-11	s RES, ADJ METAL 5K
RV501	1-238-786-11	s RES, ADJ METAL 5K
RV700	1-238-800-11	s RES, ADJ METAL 2K
RV701	1-238-801-11	s RES, ADJ METAL 5K
RV702	1-238-787-11	s RES, ADJ METAL 10K
RV703	1-238-787-11	s RES, ADJ METAL 10K
RV704	1-238-787-11	s RES, ADJ METAL 10K
RV705	1-238-799-11	s RES, ADJ METAL 1K
RV706	1-238-787-11	s RES, ADJ METAL 10K

(TBC-18P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV707	1-238-787-11	s RES, ADJ METAL 10K
RV708	1-238-787-11	s RES, ADJ METAL 10K
RV709	1-238-801-11	s RES, ADJ METAL 5K
RV710	1-238-787-11	s RES, ADJ METAL 10K
RV711	1-238-800-11	s RES, ADJ METAL 2K
S700	1-570-623-11	s SWITCH, DIP 8-CKT

TR-73 BOARD

Ref. No. or Q'ty	Part No.	SP Description
lpc	1-640-161-11	o PRINTED CIRCUIT BOARD, TR-73
lpc	3-171-392-01	s HOLDER, DME
CN920	1-506-483-21	s CONNECTOR 4P, MALE
SS1	8-745-001-07	s DME DM-230-1

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

VP-33BP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8271-390-A	o MOUNTED CIRCUIT BOARD, VP-33BP
2pcs	2-251-622-11	s LEVER, PC BOARD
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C2	1-124-477-11	s ELECT 47uF 20% 25V
C3	1-124-477-11	s ELECT 47uF 20% 25V
C4	1-124-477-11	s ELECT 47uF 20% 25V
C5	1-124-477-11	s ELECT 47uF 20% 25V
C6	1-124-477-11	s ELECT 47uF 20% 25V
C7	1-124-477-11	s ELECT 47uF 20% 25V
C8	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-124-477-11	s ELECT 47uF 20% 25V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-124-477-11	s ELECT 47uF 20% 25V
C12	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C13	1-131-353-00	s TANTALUM 10uF 10% 35V
C20	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C21	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C22	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C102	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C104	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C105	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C111	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C112	1-124-477-11	s ELECT 47uF 20% 25V
C120	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C121	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C122	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C123	1-163-108-00	s CERAMIC, CHIP 43PF 5% 50V
C124	1-163-115-00	s CERAMIC, CHIP 82PF 5% 50V
C125	1-163-108-00	s CERAMIC, CHIP 43PF 5% 50V
C126	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C127	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C128	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C129	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C130	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C131	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C132	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C133	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C134	1-163-245-11	s CERAMIC, CHIP 56PF 5% 50V
C135	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C136	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C137	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C150	1-163-224-11	s CERAMIC, CHIP 7PF 50V
C154	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C155	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C161	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C162	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C163	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C164	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C165	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C166	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C167	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C181	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C182	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C183	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C184	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C185	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C186	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C187	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C188	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C189	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C190	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C191	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C192	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C193	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C194	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C195	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C196	1-124-477-11	s ELECT 47uF 20% 25V
C197	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C198	1-124-477-11	s ELECT 47uF 20% 25V
C211	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C212	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C213	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C214	1-124-477-11	s ELECT 47uF 20% 25V
C215	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C216	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C217	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C218	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C219	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C220	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C221	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C222	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C223	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C224	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C231	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C232	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C233	1-124-477-11	s ELECT 47uF 20% 25V
C234	1-124-477-11	s ELECT 47uF 20% 25V
C235	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C236	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C237	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C238	1-124-477-11	s ELECT 47uF 20% 25V
C241	1-124-903-11	s ELECT 1uF 20% 50V
C242	1-124-903-11	s ELECT 1uF 20% 50V
C243	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C244	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C245	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C246	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C261	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C262	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C263	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C264	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C265	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C266	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C267	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C268	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C269	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C270	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C272	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C291	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C292	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C293	1-124-903-11	s ELECT 1uF 20% 50V
C294	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C295	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C296	1-162-714-11	s CERAMIC 150PF 1% 50V
C297	1-126-103-11	s ELECT 470uF 20% 16V
C298	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C299	1-124-927-11	s ELECT 4.7uF 20% 100V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C300	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C301	1-163-114-00	s CERAMIC, CHIP 75PF 5% 50V
C302	1-163-115-00	s CERAMIC, CHIP 82PF 5% 50V
C303	1-163-130-00	s CERAMIC, CHIP 360PF 5% 50V
C304	1-163-131-00	s CERAMIC, CHIP 390PF 5% 50V
C305	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C306	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C307	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C308	1-124-477-11	s ELECT 47uF 20% 25V
C309	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C310	1-124-477-11	s ELECT 47uF 20% 25V
C311	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C312	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C313	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C314	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C315	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C316	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C321	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C322	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C323	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C324	1-126-103-11	s ELECT 470uF 20% 16V
C325	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C326	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C327	1-163-091-00	s CERAMIC, CHIP 8PF 50V
C328	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C329	1-124-119-00	s ELECT 330uF 20% 16V
C330	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C331	1-124-119-00	s ELECT 330uF 20% 16V
C340	1-164-695-11	s CERAMIC 0.0022uF 5% 50V
C352	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C354	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C355	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C356	1-126-103-11	s ELECT 470uF 20% 16V
C357	1-126-103-11	s ELECT 470uF 20% 16V
C367	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C368	1-127-518-11	s ALUMN SOLID 100uF 20% 16V
C369	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C370	1-127-518-11	s ALUMN SOLID 100uF 20% 16V
C371	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C402	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C404	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C405	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C409	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C410	1-124-477-11	s ELECT 47uF 20% 25V
C420	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C421	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C422	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C423	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C424	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C425	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C426	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C427	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C428	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C429	1-163-253-11	s CERAMIC, CHIP 120PF 5% 50V
C430	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C431	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C432	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
C433	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C434	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C435	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C436	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C437	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C438	1-163-136-00	s CERAMIC, CHIP 620PF 5% 50V
C450	1-163-257-11	s CERAMIC, CHIP 180PF 5% 50V
C451	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
C461	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C462	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C463	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C464	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C465	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C466	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C467	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C468	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C469	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C470	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C471	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C472	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C473	1-124-477-11	s ELECT 47uF 20% 25V
C474	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C475	1-124-477-11	s ELECT 47uF 20% 25V
C507	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C508	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C509	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C510	1-124-477-11	s ELECT 47uF 20% 25V
C511	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C512	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C513	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C514	1-124-477-11	s ELECT 47uF 20% 25V
C515	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C516	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C517	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C518	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C519	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C520	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C521	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C522	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C523	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C524	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C531	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C532	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C533	1-124-477-11	s ELECT 47uF 20% 25V
C534	1-124-477-11	s ELECT 47uF 20% 25V
C535	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C536	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C537	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C538	1-124-477-11	s ELECT 47uF 20% 25V
C541	1-124-903-11	s ELECT 1uF 20% 50V
C542	1-124-903-11	s ELECT 1uF 20% 50V
C543	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C544	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C545	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C546	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C561	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C562	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C563	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C564	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C565	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C566	1-163-222-11	s CERAMIC, CHIP 5PF 50V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C567	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C568	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C569	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C571	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C591	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C592	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C593	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C594	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C595	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C596	1-162-714-11	s CERAMIC 150PF 1% 50V
C597	1-126-103-11	s ELECT 470uF 20% 16V
C598	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C599	1-124-927-11	s ELECT 4.7uF 20% 100V
C600	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C601	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C602	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C603	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C604	1-124-477-11	s ELECT 47uF 20% 25V
C621	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C622	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C623	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C624	1-126-103-11	s ELECT 470uF 20% 16V
C625	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C626	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C627	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C628	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C629	1-124-119-00	s ELECT 330uF 20% 16V
C630	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C631	1-124-119-00	s ELECT 330uF 20% 16V
C632	1-126-101-11	s ELECT 100uF 20% 16V
C640	1-164-695-11	s CERAMIC, CHIP 0.0022uF 5% 50V
C652	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C654	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C655	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C656	1-126-103-11	s ELECT 470uF 20% 16V
C657	1-126-103-11	s ELECT 470uF 20% 16V
C667	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C668	1-127-518-11	s ALUMN SOLID 100uF 20% 16V
C669	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C670	1-127-518-11	s ALUMN SOLID 100uF 20% 16V
C702	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C703	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C704	1-131-365-00	s TANTALUM 10uF 10% 20V
C705	1-131-365-00	s TANTALUM 10uF 10% 20V
C706	1-130-491-00	s MYLAR 0.047uF 5% 50V
C707	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C708	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C709	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C710	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C711	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C712	1-124-477-11	s ELECT 47uF 20% 25V
C713	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C714	1-131-365-00	s TANTALUM 10uF 10% 20V
C715	1-131-365-00	s TANTALUM 10uF 10% 20V
C716	1-130-491-00	s MYLAR 0.047uF 5% 50V
C717	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C718	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C719	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C721	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C722	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C725	1-131-365-00	s TANTALUM 10uF 10% 20V
C726	1-131-365-00	s TANTALUM 10uF 10% 20V
C727	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C728	1-130-491-00	s MYLAR 0.047uF 5% 50V
C729	1-131-365-00	s TANTALUM 10uF 10% 20V
C730	1-131-365-00	s TANTALUM 10uF 10% 20V
C731	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C732	1-130-491-00	s MYLAR 0.047uF 5% 50V
C733	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C734	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C735	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C736	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C737	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C738	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C739	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C740	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C741	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C742	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C743	1-163-087-00	s CERAMIC, CHIP 4PF 50V
C744	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C745	1-124-477-11	s ELECT 47uF 20% 25V
C746	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C747	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C748	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C749	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C750	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C751	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C752	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C753	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C754	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C755	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C756	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C757	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C759	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C760	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C761	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C762	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C763	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C764	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C765	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C766	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C767	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C768	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C769	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C770	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C771	1-124-477-11	s ELECT 47uF 20% 25V
C772	1-124-477-11	s ELECT 47uF 20% 25V
C773	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C774	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C780	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C781	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C782	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C790	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C801	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C802	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C803	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C901	1-124-477-11	s ELECT 47uF 20% 25V
C902	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C903	1-124-477-11	s ELECT 47uF 20% 25V
C904	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C905	1-124-477-11	s ELECT 47uF 20% 25V
C906	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C907	1-124-477-11	s ELECT 47uF 20% 25V
C908	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C909	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C910	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C911	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C912	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C913	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C914	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C915	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C916	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C917	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C918	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C919	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C920	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C921	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C922	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C923	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C924	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C925	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C926	1-124-477-11	s ELECT 47uF 20% 25V
C927	1-124-477-11	s ELECT 47uF 20% 25V
C928	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C929	1-124-119-00	s ELECT 330uF 20% 16V
C930	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C931	1-124-119-00	s ELECT 330uF 20% 16V
C932	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C933	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C934	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C935	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C936	1-124-477-11	s ELECT 47uF 20% 25V
C937	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C938	1-124-477-11	s ELECT 47uF 20% 25V
C939	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C940	1-124-477-11	s ELECT 47uF 20% 25V
C941	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C942	1-124-477-11	s ELECT 47uF 20% 25V
C943	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C944	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C945	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C946	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C947	1-124-477-11	s ELECT 47uF 20% 25V
C948	1-124-477-11	s ELECT 47uF 20% 25V
C949	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C950	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C951	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C952	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C953	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C954	1-124-477-11	s ELECT 47uF 20% 25V
C955	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C956	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C957	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C958	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C959	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C960	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C961	1-124-477-11	s ELECT 47uF 20% 25V

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C962	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C963	1-124-477-11	s ELECT 47uF 20% 25V
C964	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C965	1-124-477-11	s ELECT 47uF 20% 25V
C966	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C967	1-124-477-11	s ELECT 47uF 20% 25V
C968	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C969	1-124-477-11	s ELECT 47uF 20% 25V
C970	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C971	1-124-477-11	s ELECT 47uF 20% 25V
C972	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C973	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C974	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C975	1-124-477-11	s ELECT 47uF 20% 25V
C976	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C977	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C978	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C979	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C980	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C981	1-124-477-11	s ELECT 47uF 20% 25V
C982	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C983	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C984	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C985	1-124-477-11	s ELECT 47uF 20% 25V
C991	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C992	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C993	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C994	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C995	1-124-477-11	s ELECT 47uF 20% 25V
C1001	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C1002	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C2001	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C2002	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C3001	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C3002	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN101	1-506-468-11	s CONNECTOR 3P, MALE
CN102	1-506-468-11	s CONNECTOR 3P, MALE
CN103	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
CN104	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
CN105	1-506-494-11	s CONNECTOR 15P, MALE
CN203	1-506-467-11	s CONNECTOR 2P, MALE
CN204	1-506-467-11	s CONNECTOR 2P, MALE
CN205	1-506-467-11	s CONNECTOR 2P, MALE
CN401	1-506-468-11	s CONNECTOR 3P, MALE
CN402	1-506-468-11	s CONNECTOR 3P, MALE
CN503	1-506-467-11	s CONNECTOR 2P, MALE
CN504	1-506-467-11	s CONNECTOR 2P, MALE
CN701	1-506-467-11	s CONNECTOR 2P, MALE
CN702	1-506-467-11	s CONNECTOR 2P, MALE
CN703	1-506-469-11	s CONNECTOR 4P, MALE
CN704	1-506-469-11	s CONNECTOR 4P, MALE
CN705	1-506-467-11	s CONNECTOR 2P, MALE
CN801	1-565-479-11	s CONNECTOR, BB 20P
D1	8-719-941-04	s DIODE SB007-03CP
D201	8-719-123-82	s DIODE 1SS303-T1
D501	8-719-123-82	s DIODE 1SS303-T1
D502	8-719-123-82	s DIODE 1SS303-T1
D701	8-719-123-82	s DIODE 1SS303-T1

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

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Ref. No. or Q'ty	Part No.	SP Description
D702	8-719-105-38	s DIODE RD3.0M-B1
D703	8-719-123-82	s DIODE 1SS303-T1
D704	8-719-123-82	s DIODE 1SS303-T1
D705	8-719-941-04	s DIODE SB007-03CP
D706	8-719-941-04	s DIODE SB007-03CP
D707	8-719-123-82	s DIODE 1SS303-T1
D708	8-719-123-82	s DIODE 1SS303-T1
D709	8-719-123-82	s DIODE 1SS303-T1
DL101	1-415-154-00	s DELAY LINE 35nS
DL401	1-415-546-11	s DELAY LINE 50nS
FL201	1-239-161-21	s FILTER, LOW-PASS
FL202	1-239-133-21	s FILTER, LOW-PASS
FL501	1-239-133-21	s FILTER, LOW-PASS
FL502	1-239-063-21	s FILTER, LOW-PASS
FL701	1-236-070-11	s FILTER, LOW-PASS
IC1	8-759-925-74	s IC TC74HC04NS
IC2	8-759-925-74	s IC TC74HC04NS
IC3	8-759-925-72	s IC SN74HC02NS
IC4	8-759-927-46	s IC SN74HC00NS
IC5	8-759-925-85	s IC SN74HC32NS
IC6	8-759-035-93	s IC TC7S32F-TE85L
IC10	8-759-982-25	s IC RC78L09A
IC11	8-759-982-39	s IC RC7909FA
IC12	8-759-982-39	s IC RC7909FA
IC13	8-759-700-07	s IC NJM2903M
IC14	8-759-927-46	s IC SN74HC00NS
IC101	8-752-052-75	s IC CXA1479Q
IC102	8-759-009-05	s IC MC14051BF
IC103	8-759-300-71	s IC HD14053BFP
IC104	8-759-908-92	s IC TL084CNS
IC105	8-759-908-17	s IC TL082CPS
IC201	8-752-052-48	s IC CXA1370Q
IC202	8-759-300-71	s IC HD14053BFP
IC203	8-759-908-17	s IC TL082CPS
IC204	8-752-052-77	s IC CXA1450M
IC205	8-759-982-21	s IC RC78L05A
IC206	1-809-332-11	s IC H8D7169C
IC401	8-752-052-75	s IC CXA1479Q
IC402	8-759-009-05	s IC MC14051BF
IC403	8-759-300-71	s IC HD14053BFP
IC404	8-759-908-92	s IC TL084CNS
IC501	8-752-052-48	s IC CXA1370Q
IC502	8-759-300-71	s IC HD14053BFP
IC504	8-752-052-77	s IC CXA1450M
IC506	1-809-332-11	s IC H8D7169C
IC605	8-759-982-21	s IC RC78L05A
IC701	8-759-908-92	s IC TL084CNS
IC702	8-759-300-71	s IC HD14053BFP
IC703	8-759-927-46	s IC SN74HC00NS
IC704	8-752-052-73	s IC CXA1451M
IC705	8-752-052-73	s IC CXA1451M
IC706	8-752-052-73	s IC CXA1451M
IC707	8-752-052-73	s IC CXA1451M
IC708	8-759-908-92	s IC TL084CNS
IC710	8-759-908-92	s IC TL084CNS
IC711	8-759-300-71	s IC HD14053BFP
IC712	8-759-908-92	s IC TL084CNS
IC713	8-759-907-81	s IC SN74LS221NS

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Ref. No. or Q'ty	Part No.	SP Description
IC714	8-759-927-46	s IC SN74HC00NS
IC715	8-759-906-59	s IC CX22017
IC716	8-752-052-73	s IC CXA1451M
IC717	8-759-702-08	s IC NJM360M
IC718	8-759-907-81	s IC SN74LS221NS
IC719	8-759-925-90	s IC SN74HC74NS
IC720	8-752-052-73	s IC CXA1451M
IC721	8-752-052-73	s IC CXA1451M
IC722	8-759-927-46	s IC SN74HC00NS
IC801	8-759-702-08	s IC NJM360M
IC901	8-759-982-25	s IC RC78L09A
IC902	8-759-982-05	s IC RC7805FA
IC903	8-759-982-38	s IC UPC7905H
IC904	8-759-982-25	s IC RC78L09A
IC905	8-759-982-21	s IC RC78L05A
IC906	8-759-982-44	s IC RC79L05A
IC907	8-759-982-44	s IC RC79L05A
IC908	8-759-982-44	s IC RC79L05A
L1	1-412-533-11	s INDUCTOR 47uH
L2	1-412-533-11	s INDUCTOR 47uH
L3	1-412-533-11	s INDUCTOR 47uH
L4	1-412-533-11	s INDUCTOR 47uH
L5	1-412-533-11	s INDUCTOR 47uH
L101	1-410-482-31	s INDUCTOR 100uH
L121	1-408-406-00	s INDUCTOR 5.6uH
L122	1-408-406-00	s INDUCTOR 5.6uH
L123	1-410-470-11	s INDUCTOR 10uH
L124	1-410-470-11	s INDUCTOR 10uH
L125	1-410-466-41	s INDUCTOR 4.7uH
L181	1-410-473-11	s INDUCTOR 18uH
L182	1-410-466-41	s INDUCTOR 4.7uH
L183	1-410-482-31	s INDUCTOR 100uH
L184	1-410-482-31	s INDUCTOR 100uH
L211	1-410-482-31	s INDUCTOR 100uH
L212	1-408-408-00	s INDUCTOR 8.2uH
L213	1-410-462-11	s INDUCTOR 2.2uH
L231	1-408-427-00	s INDUCTOR 330uH
L232	1-410-482-31	s INDUCTOR 100uH
L261	1-410-471-11	s INDUCTOR 12uH
L291	1-410-468-11	s INDUCTOR 6.8uH
L292	1-408-413-00	s INDUCTOR 22uH
L293	1-408-416-00	s INDUCTOR 39uH
L294	1-410-482-31	s INDUCTOR 100uH
L321	1-410-482-31	s INDUCTOR 100uH
L322	1-410-482-31	s INDUCTOR 100uH
L351	1-410-482-31	s INDUCTOR 100uH
L352	1-410-482-31	s INDUCTOR 100uH
L401	1-410-482-31	s INDUCTOR 100uH
L421	1-410-468-11	s INDUCTOR 6.8uH
L422	1-410-468-11	s INDUCTOR 6.8uH
L423	1-410-470-11	s INDUCTOR 10uH
L424	1-410-470-11	s INDUCTOR 10uH
L425	1-408-406-00	s INDUCTOR 5.6uH
L450	1-408-429-00	s INDUCTOR 470uH
L451	1-408-429-00	s INDUCTOR 470uH
L461	1-410-482-31	s INDUCTOR 100uH
L462	1-410-482-31	s INDUCTOR 100uH
L511	1-410-482-31	s INDUCTOR 100uH

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
L512	1-410-470-11	s INDUCTOR 10uH
L513	1-410-462-11	s INDUCTOR 2.2uH
L531	1-408-427-00	s INDUCTOR 330uH
L532	1-410-482-31	s INDUCTOR 100uH
L561	1-410-471-11	s INDUCTOR 12uH
L591	1-408-408-00	s INDUCTOR 8.2uH
L594	1-410-482-31	s INDUCTOR 100uH
L621	1-410-482-31	s INDUCTOR 100uH
L622	1-410-482-31	s INDUCTOR 100uH
L651	1-410-482-31	s INDUCTOR 100uH
L652	1-410-482-31	s INDUCTOR 100uH
L701	1-410-482-31	s INDUCTOR 100uH
L702	1-410-476-11	s INDUCTOR 33uH
L703	1-410-482-31	s INDUCTOR 100uH
L704	1-408-413-00	s INDUCTOR 22uH
L705	1-408-414-00	s INDUCTOR 27uH
L706	1-408-414-00	s INDUCTOR 27uH
L707	1-408-414-00	s INDUCTOR 27uH
L708	1-408-414-00	s INDUCTOR 27uH
L709	1-408-416-00	s INDUCTOR 39uH
L710	1-408-416-00	s INDUCTOR 39uH
L711	1-410-478-11	s INDUCTOR 47uH
L712	1-410-482-31	s INDUCTOR 100uH
L720	1-408-413-00	s INDUCTOR 22uH
L721	1-408-419-00	s INDUCTOR 68uH
L901	1-410-482-31	s INDUCTOR 100uH
L902	1-410-482-31	s INDUCTOR 100uH
L903	1-410-482-31	s INDUCTOR 100uH
L904	1-410-482-31	s INDUCTOR 100uH
L905	1-410-482-31	s INDUCTOR 100uH
L906	1-410-482-31	s INDUCTOR 100uH
L907	1-410-482-31	s INDUCTOR 100uH
L908	1-410-482-31	s INDUCTOR 100uH
L909	1-410-482-31	s INDUCTOR 100uH
L910	1-410-482-31	s INDUCTOR 100uH
L911	1-410-482-31	s INDUCTOR 100uH
L912	1-410-482-31	s INDUCTOR 100uH
L913	1-410-482-31	s INDUCTOR 100uH
L914	1-410-482-31	s INDUCTOR 100uH
L915	1-410-482-31	s INDUCTOR 100uH
L916	1-410-482-31	s INDUCTOR 100uH
L917	1-410-482-31	s INDUCTOR 100uH
L918	1-410-482-31	s INDUCTOR 100uH
L919	1-410-482-31	s INDUCTOR 100uH
L920	1-410-482-31	s INDUCTOR 100uH
L921	1-410-482-31	s INDUCTOR 100uH
Q20	8-729-117-32	s TRANSISTOR 2SC4177
Q120	8-729-117-32	s TRANSISTOR 2SC4177
Q121	8-729-117-72	s TRANSISTOR 2SC4178
Q122	8-729-117-72	s TRANSISTOR 2SC4178
Q123	8-729-117-72	s TRANSISTOR 2SC4178
Q124	8-729-117-72	s TRANSISTOR 2SC4178
Q125	8-729-117-72	s TRANSISTOR 2SC4178
Q126	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q127	8-729-117-72	s TRANSISTOR 2SC4178
Q128	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q151	8-729-117-72	s TRANSISTOR 2SC4178
Q161	8-729-117-72	s TRANSISTOR 2SC4178

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q162	8-729-905-12	s TRANSISTOR DTA144EU
Q163	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q164	8-729-117-72	s TRANSISTOR 2SC4178
Q165	8-729-905-12	s TRANSISTOR DTA144EU
Q167	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q168	8-729-117-72	s TRANSISTOR 2SC4178
Q169	8-729-117-72	s TRANSISTOR 2SC4178
Q181	8-729-117-72	s TRANSISTOR 2SC4178
Q182	8-729-905-12	s TRANSISTOR DTA144EU
Q183	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q184	8-729-117-72	s TRANSISTOR 2SC4178
Q185	8-729-905-12	s TRANSISTOR DTA144EU
Q186	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q187	8-729-117-72	s TRANSISTOR 2SC4178
Q188	8-729-905-12	s TRANSISTOR DTA144EU
Q189	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q190	8-729-117-72	s TRANSISTOR 2SC4178
Q191	8-729-117-72	s TRANSISTOR 2SC4178
Q192	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q193	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q194	8-729-117-72	s TRANSISTOR 2SC4178
Q201	8-729-905-12	s TRANSISTOR DTA144EU
Q204	8-729-905-12	s TRANSISTOR DTA144EU
Q205	8-729-905-12	s TRANSISTOR DTA144EU
Q211	8-729-117-72	s TRANSISTOR 2SC4178
Q212	8-729-117-72	s TRANSISTOR 2SC4178
Q213	8-729-117-72	s TRANSISTOR 2SC4178
Q214	8-729-117-72	s TRANSISTOR 2SC4178
Q215	8-729-117-72	s TRANSISTOR 2SC4178
Q241	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q250	8-729-905-18	s TRANSISTOR DTC144EU
Q252	8-729-905-18	s TRANSISTOR DTC144EU
Q261	8-729-117-72	s TRANSISTOR 2SC4178
#Q262	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q263	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q264	8-729-117-72	s TRANSISTOR 2SC4178
#Q265	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q266	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q270	8-729-905-12	s TRANSISTOR DTA144EU
Q291	8-729-117-72	s TRANSISTOR 2SC4178
Q292	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q293	8-729-117-72	s TRANSISTOR 2SC4178
Q294	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q321	8-729-117-72	s TRANSISTOR 2SC4178
Q322	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q323	8-729-117-72	s TRANSISTOR 2SC4178
Q324	8-729-117-72	s TRANSISTOR 2SC4178
Q325	8-729-117-72	s TRANSISTOR 2SC4178
Q326	8-729-117-72	s TRANSISTOR 2SC4178
Q327	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q328	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q329	8-729-117-72	s TRANSISTOR 2SC4178
Q351	8-729-117-72	s TRANSISTOR 2SC4178
Q352	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q420	8-729-117-32	s TRANSISTOR 2SC4177
Q421	8-729-117-72	s TRANSISTOR 2SC4178
Q422	8-729-117-72	s TRANSISTOR 2SC4178
Q423	8-729-117-72	s TRANSISTOR 2SC4178
Q424	8-729-117-72	s TRANSISTOR 2SC4178

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q425	8-729-117-72 s	TRANSISTOR 2SC4178
Q426	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q427	8-729-117-72 s	TRANSISTOR 2SC4178
Q428	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q461	8-729-117-72 s	TRANSISTOR 2SC4178
Q462	8-729-905-12 s	TRANSISTOR DTA144EU
Q463	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q464	8-729-117-72 s	TRANSISTOR 2SC4178
Q465	8-729-905-12 s	TRANSISTOR DTA144EU
Q466	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q467	8-729-117-72 s	TRANSISTOR 2SC4178
Q468	8-729-117-72 s	TRANSISTOR 2SC4178
Q501	8-729-905-12 s	TRANSISTOR DTA144EU
Q504	8-729-905-12 s	TRANSISTOR DTA144EU
Q505	8-729-905-12 s	TRANSISTOR DTA144EU
Q513	8-729-117-72 s	TRANSISTOR 2SC4178
Q514	8-729-117-72 s	TRANSISTOR 2SC4178
Q515	8-729-117-72 s	TRANSISTOR 2SC4178
Q541	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q550	8-729-905-18 s	TRANSISTOR DTC144EU
Q552	8-729-905-18 s	TRANSISTOR DTC144EU
Q561	8-729-117-72 s	TRANSISTOR 2SC4178
Q563	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q570	8-729-905-12 s	TRANSISTOR DTA144EU
Q591	8-729-117-72 s	TRANSISTOR 2SC4178
Q592	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q621	8-729-117-72 s	TRANSISTOR 2SC4178
Q622	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q623	8-729-117-72 s	TRANSISTOR 2SC4178
Q624	8-729-117-72 s	TRANSISTOR 2SC4178
Q625	8-729-117-72 s	TRANSISTOR 2SC4178
Q626	8-729-117-72 s	TRANSISTOR 2SC4178
Q627	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q628	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q629	8-729-117-72 s	TRANSISTOR 2SC4178
Q651	8-729-117-72 s	TRANSISTOR 2SC4178
Q652	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q701	8-729-117-32 s	TRANSISTOR 2SC4177
Q702	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q703	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q704	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q705	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q706	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q707	8-729-904-41 s	TRANSISTOR FMY3
Q708	8-729-904-41 s	TRANSISTOR FMY3
Q709	8-729-117-32 s	TRANSISTOR 2SC4177
Q710	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q711	8-729-117-32 s	TRANSISTOR 2SC4177
Q712	8-729-904-41 s	TRANSISTOR FMY3
Q713	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q714	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q715	8-729-117-32 s	TRANSISTOR 2SC4177
Q716	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q717	8-729-117-32 s	TRANSISTOR 2SC4177
Q718	8-729-117-32 s	TRANSISTOR 2SC4177
Q719	8-729-117-32 s	TRANSISTOR 2SC4177
Q728	8-729-117-32 s	TRANSISTOR 2SC4177
Q729	8-729-117-32 s	TRANSISTOR 2SC4177
Q730	8-729-117-32 s	TRANSISTOR 2SC4177

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Ref. No. or Q'ty	Part No.	SP Description
Q731	8-729-117-32 s	TRANSISTOR 2SC4177
Q732	8-729-117-32 s	TRANSISTOR 2SC4177
Q733	8-729-117-32 s	TRANSISTOR 2SC4177
Q734	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q735	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q736	8-729-117-32 s	TRANSISTOR 2SC4177
Q737	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q738	8-729-117-32 s	TRANSISTOR 2SC4177
Q739	8-729-117-32 s	TRANSISTOR 2SC4177
Q740	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q741	8-729-117-32 s	TRANSISTOR 2SC4177
Q742	8-729-117-32 s	TRANSISTOR 2SC4177
Q743	8-729-117-32 s	TRANSISTOR 2SC4177
Q746	8-729-117-32 s	TRANSISTOR 2SC4177
Q747	8-729-117-32 s	TRANSISTOR 2SC4177
Q748	8-729-117-32 s	TRANSISTOR 2SC4177
Q749	8-729-117-32 s	TRANSISTOR 2SC4177
Q750	8-729-117-32 s	TRANSISTOR 2SC4177
Q751	8-729-117-32 s	TRANSISTOR 2SC4177
Q752	8-729-117-32 s	TRANSISTOR 2SC4177
Q753	8-729-117-32 s	TRANSISTOR 2SC4177
Q754	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q755	8-729-117-32 s	TRANSISTOR 2SC4177
Q756	8-729-117-32 s	TRANSISTOR 2SC4177
Q757	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q758	8-729-117-32 s	TRANSISTOR 2SC4177
Q759	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q760	8-729-117-32 s	TRANSISTOR 2SC4177
Q761	8-729-117-32 s	TRANSISTOR 2SC4177
Q762	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q763	8-729-117-32 s	TRANSISTOR 2SC4177
Q764	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q765	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q766	8-729-117-32 s	TRANSISTOR 2SC4177
Q767	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q768	8-729-905-18 s	TRANSISTOR DTC144EU
Q770	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q771	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q772	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q773	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q1001	8-729-904-04 s	TRANSISTOR FMS2
Q1002	8-729-923-06 s	TRANSISTOR FMW8
Q1003	8-729-903-82 s	TRANSISTOR FMW2
Q1004	8-729-931-46 s	TRANSISTOR FMW7
Q1005	8-729-907-26 s	TRANSISTOR IMX1
Q2001	8-729-904-04 s	TRANSISTOR FMS2
Q2002	8-729-923-06 s	TRANSISTOR FMW8
Q2003	8-729-903-82 s	TRANSISTOR FMW2
Q2004	8-729-931-46 s	TRANSISTOR FMW7
Q2005	8-729-907-26 s	TRANSISTOR IMX1
Q3001	8-729-904-04 s	TRANSISTOR FMS2
Q3002	8-729-923-06 s	TRANSISTOR FMW8
Q3003	8-729-903-82 s	TRANSISTOR FMW2
Q3004	8-729-931-46 s	TRANSISTOR FMW7
Q3005	8-729-907-26 s	TRANSISTOR IMX1
R2	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R3	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R4	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R5	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

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Ref. No. or Q'ty	Part No.	SP Description
R7	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R8	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R9	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R10	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R11	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R12	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R13	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R14	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R15	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R16	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R18	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R19	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R22	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R23	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R24	1-216-295-00	s METAL, CHIP 0
R30	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R31	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R32	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R33	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R52	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R53	1-216-648-11	s METAL, CHIP 750 0.5% 1/10W
R54	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R55	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R100	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R101	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R102	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R103	1-216-295-00	s METAL, CHIP 0
R104	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R105	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R106	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R107	1-216-295-00	s METAL, CHIP 0
R108	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R109	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R110	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R111	1-216-295-00	s METAL, CHIP 0
R112	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R113	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R114	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R115	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R116	1-216-295-00	s METAL, CHIP 0
R117	1-216-295-00	s METAL, CHIP 0
R118	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R119	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R120	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R121	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R122	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R123	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R124	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R125	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R126	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R127	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R128	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R129	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R130	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R131	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R132	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R133	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R134	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R135	1-216-025-00	s METAL, CHIP 100 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R136	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R137	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R138	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R139	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R140	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R141	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R143	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R144	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R145	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R146	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R147	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R148	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R149	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R150	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R152	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R161	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R162	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R163	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R164	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R165	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R166	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R167	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R168	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R169	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R170	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R171	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R172	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R173	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R174	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R175	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R176	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R181	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R182	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R183	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R184	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R185	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R186	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R187	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R188	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R189	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R190	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R191	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R192	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R193	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R194	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R195	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R196	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R197	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R198	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R199	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R200	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R201	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R202	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R203	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R204	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R205	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R206	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R207	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R208	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R209	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R210	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R211	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R212	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R213	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R214	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R215	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R216	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R217	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R218	1-216-063-00	s METAL, CHIP 3.9K 5% 1/10W
R219	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R220	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R221	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R222	1-216-039-00	s METAL, CHIP 390 5% 1/10W
R223	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R224	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R225	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R226	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R227	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R228	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R231	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R232	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R233	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R234	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R235	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R236	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R237	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R241	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R242	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R243	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R244	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R245	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R246	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R247	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R248	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R250	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R251	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R252	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R254	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R255	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R256	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R261	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R262	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R263	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R264	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R265	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R266	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R267	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R268	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R269	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R270	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R271	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R272	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R273	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R274	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R275	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R276	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R282	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R288	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R289	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R290	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R291	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R292	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R293	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R294	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R295	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R296	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R297	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R298	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R299	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R300	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R301	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R302	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R303	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R304	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R305	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R306	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R307	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R308	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R309	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R310	1-216-695-11	s METAL, CHIP 68K 0.5% 1/10W
R311	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R312	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R313	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R314	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W
R315	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R316	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R317	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R318	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R319	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R320	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R321	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R322	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R323	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R324	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R325	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R326	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R327	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R328	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R329	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R330	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R331	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R332	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R333	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R334	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R335	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R336	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
#R337	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R338	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R339	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R340	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R341	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R342	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R343	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R344	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R351	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R354	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R355	1-216-025-00	s METAL, CHIP 100 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R356	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R358	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R359	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R360	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R361	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
#R362	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
#R363	1-216-063-00	s METAL, CHIP 3.9K 5% 1/10W
#R364	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
#R365	1-216-063-00	s METAL, CHIP 3.9K 5% 1/10W
#R368	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R390	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R391	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R392	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R395	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R396	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R397	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R400	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R401	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R402	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R403	1-216-629-11	s METAL, CHIP 120 0.5% 1/10W
R404	1-216-633-11	s METAL, CHIP 180 0.5% 1/10W
R405	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R406	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R407	1-216-629-11	s METAL, CHIP 120 0.5% 1/10W
R408	1-216-633-11	s METAL, CHIP 180 0.5% 1/10W
R409	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R410	1-216-295-00	s METAL, CHIP 0
R411	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R412	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R413	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R414	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R415	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R418	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R419	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R420	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R421	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R422	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R423	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R424	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R425	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R426	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R427	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R428	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R429	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R430	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R431	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R432	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R433	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R434	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R435	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R436	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R437	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R438	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R439	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R440	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R441	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R442	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R443	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R444	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R445	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R446	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R447	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R448	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R449	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R450	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R452	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R456	1-216-637-11	s METAL, CHIP 270 0.5% 1/10W
R461	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R462	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R463	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R464	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R465	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R466	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R467	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R468	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R469	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R470	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R471	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R472	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R473	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R474	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R475	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R476	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R509	1-216-295-00	s METAL, CHIP 0
R510	1-216-295-00	s METAL, CHIP 0
R511	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R512	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R513	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R514	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R515	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R516	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R517	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R519	1-216-637-11	s METAL, CHIP 270 0.5% 1/10W
R522	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R524	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R525	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R526	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R527	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R528	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R531	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R532	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R533	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R534	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R535	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R536	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R537	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R541	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R542	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R543	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R544	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R545	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R551	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R552	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R554	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R555	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R556	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R558	1-216-295-00	s METAL, CHIP 0
R561	1-216-113-00	s METAL, CHIP 470K 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R562	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R563	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R564	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R565	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R566	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R567	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R568	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R569	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R570	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R571	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R577	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R588	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R589	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R590	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R591	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R592	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R593	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R594	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R595	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R596	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R597	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R598	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R599	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R600	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R601	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R602	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R603	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R604	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R621	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R622	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R623	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R624	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R625	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R626	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R627	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R628	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R629	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R630	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R631	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R632	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R633	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R634	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R635	1-216-025-00	s METAL, CHIP 100 5% 1/10W
#R636	1-216-646-11	s METAL, CHIP 620 0.5% 1/10W
R637	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R638	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R640	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R641	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R642	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
#R644	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
#R649	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R651	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R654	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R655	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R656	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R658	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R659	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R660	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R661	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R690	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R691	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R695	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R696	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R697	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R701	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R702	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R703	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R704	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R705	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R706	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R707	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R708	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R709	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R710	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R711	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R712	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R713	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R714	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R715	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R716	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R717	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R718	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R719	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R720	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R721	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R722	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R723	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R724	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R725	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R726	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R727	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R728	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R729	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R730	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R731	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R732	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R733	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R734	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R735	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R736	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R737	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R738	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R739	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R740	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R741	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R742	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R743	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R744	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R745	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R746	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R747	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R748	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R749	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R750	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R753	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R754	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R755	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R760	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R761	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R762	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R763	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R764	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R765	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R766	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R767	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R768	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R769	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R770	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R771	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R772	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R773	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R774	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R775	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R776	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R777	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R778	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R779	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R780	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R781	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R782	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R783	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R784	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R785	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R786	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R792	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R796	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R802	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R803	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R804	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R805	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R806	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R807	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R808	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R809	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R810	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R811	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R812	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R813	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R814	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R815	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R816	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R817	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R818	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R819	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R820	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R821	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R822	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R823	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R824	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R825	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R826	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R827	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R828	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R829	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R830	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R831	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R832	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R833	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R834	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R835	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R836	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R837	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R838	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R839	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R840	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R841	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R842	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R843	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R844	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R845	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R846	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R847	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R848	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R849	1-216-646-11	s METAL, CHIP 620 0.5% 1/10W
R850	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R851	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R852	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R853	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R854	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R855	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R856	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R857	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R858	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R859	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R860	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R861	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R862	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R863	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R864	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R865	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R866	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R867	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R868	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R869	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R870	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R871	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R872	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R873	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R874	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R875	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R876	1-216-295-00	s METAL, CHIP 0
R877	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R878	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R879	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R880	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R881	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R882	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R883	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R884	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R885	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R886	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R887	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R888	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R889	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R890	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R891	1-216-025-00	s METAL, CHIP 100 5% 1/10W

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R892	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R893	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R894	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R895	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R896	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R897	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R898	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R899	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R901	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R902	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R903	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R904	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R905	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R906	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R908	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R909	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R910	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R911	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R912	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R913	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R914	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R915	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R916	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R917	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R918	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R919	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R920	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R922	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R923	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R924	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R925	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R927	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R928	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R929	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R930	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R931	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R932	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R933	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R934	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R935	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R936	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R937	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R939	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R940	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R941	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R942	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R944	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R945	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R946	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R947	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R948	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R949	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R950	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R951	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R952	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R953	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R955	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R956	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R960	1-216-025-00	s METAL, CHIP 100 5% 1/10W

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R961	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R962	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R963	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R964	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R965	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R966	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R967	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R968	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R970	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R971	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R972	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R980	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R981	1-216-025-00	s METAL, CHIP 100 5% 1/10W
#R1001	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R1002	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R1003	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R1004	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R1005	1-216-027-00	s METAL, CHIP 120 5% 1/10W
#R2001	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R2002	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R2003	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R2004	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R2005	1-216-027-00	s METAL, CHIP 120 5% 1/10W
#R3001	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R3002	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R3003	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R3004	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R3005	1-216-027-00	s METAL, CHIP 120 5% 1/10W
RV102	1-238-016-11	s RES, ADJ CARBON 10K
RV103	1-238-016-11	s RES, ADJ CARBON 10K
RV106	1-238-016-11	s RES, ADJ CARBON 10K
RV107	1-238-016-11	s RES, ADJ CARBON 10K
RV108	1-238-012-11	s RES, ADJ CARBON 1K
RV109	1-238-012-11	s RES, ADJ CARBON 1K
RV111	1-238-016-11	s RES, ADJ CARBON 10K
RV112	1-238-802-11	s RES, ADJ METAL 10K
RV113	1-238-016-11	s RES, ADJ CARBON 10K
RV201	1-238-016-11	s RES, ADJ CARBON 10K
RV202	1-238-016-11	s RES, ADJ CARBON 10K
RV203	1-238-016-11	s RES, ADJ CARBON 10K
RV204	1-238-801-11	s RES, ADJ METAL 5K
RV205	1-238-801-11	s RES, ADJ METAL 5K
RV206	1-238-016-11	s RES, ADJ CARBON 10K
RV402	1-238-016-11	s RES, ADJ CARBON 10K
RV403	1-238-016-11	s RES, ADJ CARBON 10K
RV406	1-238-016-11	s RES, ADJ CARBON 10K
RV407	1-238-016-11	s RES, ADJ CARBON 10K
RV408	1-238-012-11	s RES, ADJ CARBON 1K
RV409	1-238-012-11	s RES, ADJ CARBON 1K
RV412	1-238-016-11	s RES, ADJ CARBON 10K
RV413	1-238-016-11	s RES, ADJ CARBON 10K
RV501	1-238-016-11	s RES, ADJ CARBON 10K
RV502	1-238-802-11	s RES, ADJ METAL 10K
RV503	1-238-016-11	s RES, ADJ CARBON 10K
#RV504	1-238-802-11	s RES, ADJ METAL 10K
#RV505	1-238-802-11	s RES, ADJ METAL 10K
RV506	1-238-016-11	s RES, ADJ CARBON 10K
RV701	1-238-012-11	s RES, ADJ CARBON 1K

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(VP-33BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV703	1-238-799-11	s RES, ADJ METAL 1K
RV704	1-238-799-11	s RES, ADJ METAL 1K
RV705	1-238-799-11	s RES, ADJ METAL 1K
RV706	1-238-799-11	s RES, ADJ METAL 1K
RV707	1-238-799-11	s RES, ADJ METAL 1K
RV708	1-238-799-11	s RES, ADJ METAL 1K
RV709	1-238-798-11	s RES, ADJ METAL 500
RV712	1-238-800-11	s RES, ADJ METAL 2K
RV713	1-238-019-11	s RES, ADJ CARBON 47K
RV714	1-238-019-11	s RES, ADJ CARBON 47K
RV715	1-238-799-11	s RES, ADJ METAL 1K
RV716	1-238-799-11	s RES, ADJ METAL 1K
RV718	1-238-801-11	s RES, ADJ METAL 5K
RV719	1-238-799-11	s RES, ADJ METAL 1K
RV720	1-238-019-11	s RES, ADJ CARBON 47K
RV721	1-238-013-11	s RES, ADJ CARBON 2.2K
RV722	1-238-799-11	s RES, ADJ METAL 1K
RV723	1-238-013-11	s RES, ADJ CARBON 2.2K
RV724	1-238-799-11	s RES, ADJ METAL 1K
RV725	1-238-015-11	s RES, ADJ CARBON 4.7K
RV726	1-238-015-11	s RES, ADJ CARBON 4.7K
S101	1-571-258-11	s SWITCH, SLIDE
S401	1-571-258-11	s SWITCH, SLIDE
S701	1-570-857-11	s SWITCH, SLIDE
S702	1-570-857-11	s SWITCH, SLIDE
S703	1-570-857-11	s SWITCH, SLIDE
TH202	1-800-202-11	s THERMISTOR, S-10K
TH203	1-800-202-11	s THERMISTOR, S-10K
#TH301	1-800-199-00	s THERMISTOR, S-1250
#TH601	1-800-199-00	s THERMISTOR, S-1250

VR-116B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-039-31	o PRINTED CIRCUIT BOARD, VR-116A
CN400	1-506-483-21	s CONNECTOR 4P, MALE
CN401	1-506-485-11	s CONNECTOR 6P, MALE
CN402	1-506-485-11	s CONNECTOR 6P, MALE
CN405	1-569-345-11	s CONNECTOR, BB 21P
CN407	1-506-482-11	s CONNECTOR 3P, MALE
J1	1-507-863-51	s JACK, PHONE
R5	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R6	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R7	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R8	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
RV2	1-241-248-11	s RES, VAR (WITH SW) CARBON 10K
RV4	1-241-248-11	s RES, VAR (WITH SW) CARBON 10K
RV5	1-241-577-11	s RES, VAR CARBON 20K

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

FRAME

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8260-249-A	s HEAD DRUM ASSY, DBH-34A-R
1pc	A-8260-250-A	s UPPER DRUM ASSY, DBR-34-R
1pc	A-8262-727-A	s BRUSH ASSY
1pc	A1-413-675-11	s REGULATOR, SWITCHING
2pcs	1-559-907-11	s WIRE, FLEXIBLE CARD
1pc	1-690-106-11	s WIRE, FLEXIBLE CARD 5P
1pc	1-806-682-71	s SENSOR, CONDENSATION
1pc	3-174-810-01	s SLIP RING
CN001	A1-580-375-21	o INLET, AC 3P, MALE
CN1F (to AU-150 board)		
	1-569-196-11	o HOUSING 3P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
CN1F (to Drum Motor)		
	1-580-938-11	o HOUSING 15P
	1-569-191-21	o CONTACT, FEMALE AWG22-26
CN1F (to PTC-39 board)		
	1-562-151-11	o HOUSING 6P
	1-564-026-11	o CONTACT, FEMALE AWG24-30
CN1F (to RP-57 board)		
	1-569-196-11	o HOUSING 3P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
CN1F (to Switching Reg.)		
	A1-562-285-11	o HOUSING 4P
	A1-562-210-11	o CONTACT, FEMALE AWG18-22
CN2F (to AU-148 board)		
	1-569-196-11	o HOUSING 3P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
CN2F (to AU-149 board)		
	1-569-196-11	o HOUSING 3P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
CN2F (to AU-150 board)		
	1-569-202-11	o HOUSING 9P
	1-569-193-21	o CONTACT, FEMALE AWG24-30
	1-569-191-21	o CONTACT, FEMALE AWG22-26
CN2F (to KY-210 board)		
	1-562-151-11	o HOUSING 6P
	1-564-026-11	o CONTACT, FEMALE AWG26-30
CN2F (to RP-57 board)		
	1-569-196-11	o HOUSING 3P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
CN2F (to Switching Reg.)		
	1-562-286-11	o HOUSING 5P
	1-562-210-11	o CONTACT, FEMALE AWG18-22
CN3F (to Switching Reg.)		
	1-562-833-11	o HOUSING 7P
	1-562-210-11	o CONTACT, FEMALE AWG18-22
CN4F (to Switching Reg.)		
	1-562-287-11	o HOUSING 6P
	1-562-210-11	o CONTACT, FEMALE AWG18-22
CN101F (to RP-57 board)		
	1-569-196-11	o HOUSING 3P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
CN102F (to RP-57 board)		

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
	1-569-196-11	o HOUSING 3P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
CN260F (to MB-322 board)		
	1-562-258-11	o HOUSING 10P
	1-562-260-11	o CONTACT, FEMALE
CN292F (to MB-322 board)		
	1-562-286-11	o HOUSING 5P
	1-562-210-11	o CONTACT, FEMALE AWG18-22
CN293F (to MB-322 board)		
	1-562-833-11	o HOUSING 7P
	1-562-210-11	o CONTACT, FEMALE AWG18-22
CN294F (to MB-322 board)		
	1-562-287-11	o HOUSING 6P
	1-562-210-11	o CONTACT, FEMALE AWG18-22
CN300F (to DR-118 board)		
	1-562-258-11	o HOUSING 10P
	1-562-260-11	o CONTACT, FEMALE
CN315F (to DR-118 board)		
	1-569-196-11	o HOUSING 3P
	1-569-193-21	o CONTACT, FEMALE AWG24-30
	1-569-191-21	o CONTACT, FEMALE AWG22-26
CN323F (to DR-118 board)		
	1-569-196-11	o HOUSING 3P
	1-569-193-21	o CONTACT, FEMALE AWG24-30
	1-569-191-21	o CONTACT, FEMALE AWG22-26
CN360F (to DR-118 board)		
	1-569-208-11	o HOUSING 15P
	1-569-193-21	o CONTACT, FEMALE AWG24-30
CN509F (to SW-444 board)		
	1-569-195-11	o HOUSING 2P
	1-569-193-21	o CONTACT, FEMALE AWG24-30
CN926F (to RM-82 board)		
	1-562-149-11	o HOUSING 4P
	1-564-026-11	o CONTACT, FEMALE AWG24-30
CN935F (to CL-25 board)		
	1-569-195-11	o HOUSING 2P
	1-569-193-21	o CONTACT, FEMALE AWG24-30
CN968F (to Head Drum)		
	1-569-199-11	o HOUSING 6P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
CN969F (to Head Drum)		
	1-569-199-11	o HOUSING 6P
	1-569-194-11	o CONTACT, FEMALE AWG24-30
	1-569-192-11	o CONTACT, FEMALE AWG22-26
CN998F (to AC-133 board)		
	A1-562-285-11	o HOUSING 4P
	A1-562-210-11	o CONTACT, FEMALE AWG18-22
CN999F (to AC-133 board)		
	A1-562-285-11	o HOUSING 4P
	A1-562-210-11	o CONTACT, FEMALE AWG18-22
H001	8-825-776-22	s HEAD PS244-2103E "AUDIO/TC"
H004	8-825-776-41	s HEAD PS244-21C "CTL"
L001	1-543-316-31	s HEAD, SENSING

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
L002	1-543-316-31	s HEAD, SENSING
M001	1-541-431-31	s FAN, DC
M002	8-835-179-01	s MOTOR, DC MCB2B15
M003	8-835-179-01	s MOTOR, DC MCB2B15
M004	A-6737-207-A	s RM ASSY "T-REEL"
M005	A-6737-207-A	s RM ASSY "T-REEL"
M006	8-835-179-01	s MOTOR, DC MCB2B15
M007	8-835-445-01	s MOTOR, DC SCV-0301A
ME001	1-520-494-11	s METER, VIDEO LEVEL
ME002	1-520-393-21	s METER, AUDIO LEVEL
ME003	1-520-393-21	s METER, AUDIO LEVEL
PM001	1-454-372-11	s SOLENOID
PM002	1-454-417-41	s SOLENOID
PM003	1-454-417-41	s SOLENOID
PM004	1-454-338-00	s SOLENOID
S001	△1-570-117-11	s SWITCH, ROCKER "POWER"

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-555-873-13	o CABLE, REMOTE 9P (RCC-5G) 5m
1pc	△1-590-910-11	s CORD, POWER 3P
1pc	3-176-044-01	o INDIVIDUAL CARTON
1pc	3-701-616-00	s BAG, POLYETHYLENE
1pc	3-701-649-00	s BAG, POLYETHYLENE
1pc	3-721-869-05	o CUSHION (UPPER)
1pc	3-721-870-02	o CUSHION (LOWER)
1pc	3-721-888-01	o SPACER (SIDE)
1pc	3-721-889-01	o SLEEVE (A)
1pc	3-721-890-01	o SLEEVE (B)
1pc	3-755-060-11	s MANUAL, INSTRUCTION (English)
1pc	3-755-060-41	s MANUAL, INSTRUCTION (French)
1pc	3-755-060-51	s MANUAL, INSTRUCTION (German)
1pc	3-755-060-61	s MANUAL, INSTRUCTION (Italian)
4pc	7-682-965-01	s SCREW +PSW 4X16

NOTE: For the # marked in the following parts list,
refer to Section 19 "CHANGED PARTS".

OPTIONAL FIXTURE

Part No. SP Description

A-6766-389-A o EXTENSION BOARD (L), EX-286
 J-6001-820-A o DRUM ECCENTRICITY GAUGE (3)
 J-6001-830-A o DRUM ECCENTRICITY GAUGE (2)
 J-6001-840-A o DRUM ECCENTRICITY GAUGE (1)
 J-6031-830-A o MULTI CONNECTOR CABLE (DOBNC)

 J-6035-070-A o EXTRACTION TOOL (for PLCC socket)
 J-6080-008-A o CASSETTE REFERENCE PLATE
 J-6080-011-A o REEL TABLE TENSION GAUGE
 J-6080-029-A o ADJUSTMENT MIRROR
 J-6080-840-A o ADJUSTMENT MIRROR

 J-6086-570-A o REFERENCE FLAT PLATE
 J-6087-000-A o DRUM ECCENTRICITY GAUGE (5)
 J-6152-450-A o WIRE CLEARANCE GAUGE
 J-6320-680-A o REEL TABLE HEIGHT GAUGE
 J-6320-870-A o REEL MOTOR SHAFT SLANTNESS CHECK FIXTURE

 J-6320-880-A o CASSETTE BASE PLATE (L)
 J-6321-500-A o TAPE GUIDE ADJUSTMENT DRIVER
 J-6322-370-A o TENSION REGULATOR POSITIONING TOOL
 J-6325-530-A o DRUM ECCENTRICITY GAUGE (6)
 J-6327-850-A o DIAL TENSION GAUGE (50g)

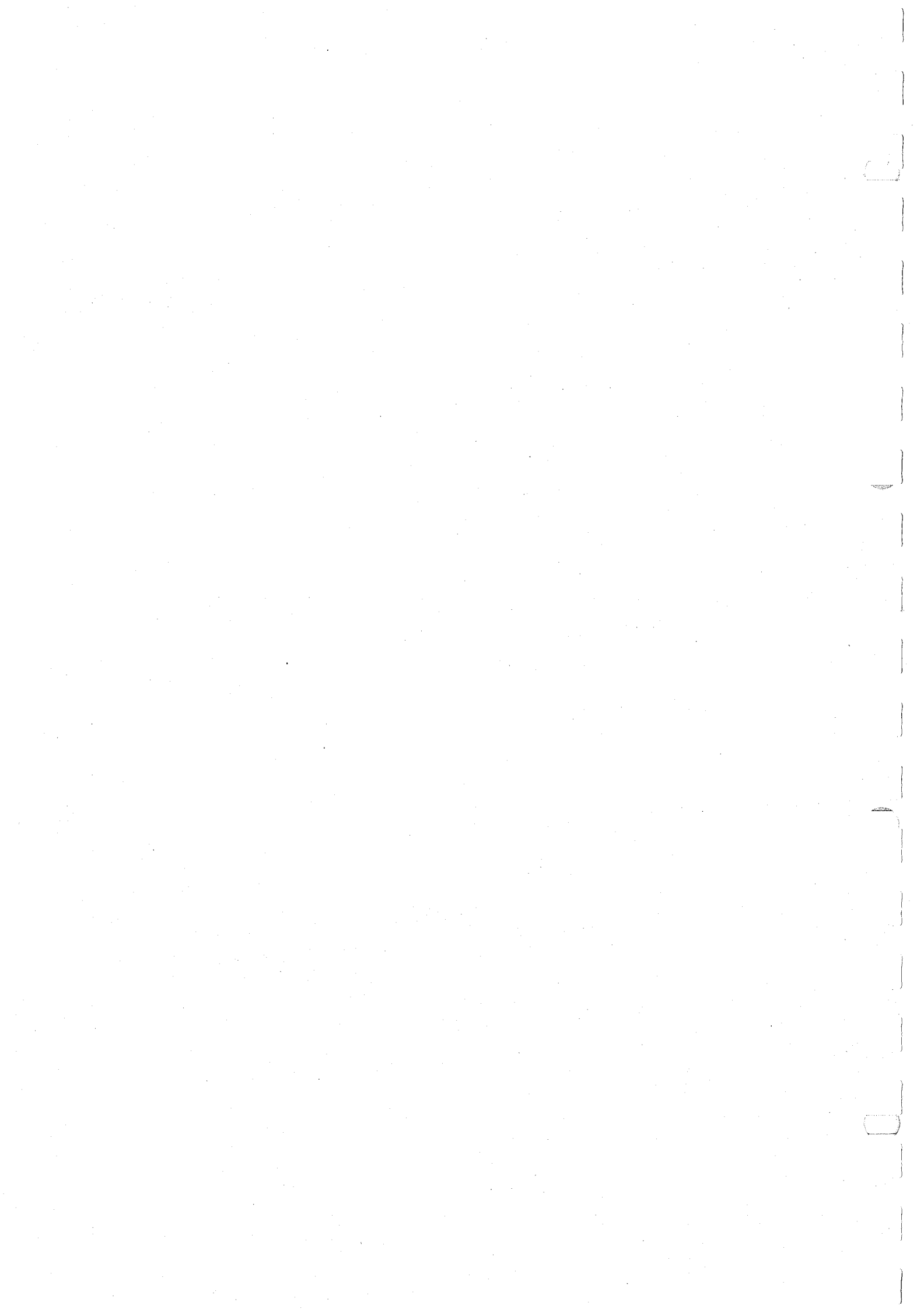
 J-6327-930-A o TENSION MEASUREMENT TAPE
 J-6338-130-A o EXTENSION BOARD (S), EX-287
 2-034-697-00 o CLEANING PIECE
 7-661-018-18 o OIL
 7-662-001-41 o MOLYTON GREASE, NO.320 (30g bottle)

 7-662-010-04 o GREASE, SGL-505 (20g)
 7-700-736-01 o L-SHAPED HEXAGONAL WRENCH (d:1.27mm)
 7-700-736-05 o L-SHAPED HEXAGONAL WRENCH (d:1.5mm)
 7-700-736-06 o L-SHAPED HEXAGONAL WRENCH (d:0.89mm)
 7-732-050-20 o TENSION SCALE (50g full scale)

 7-732-050-30 o TENSION SCALE (100g full scale)
 8-960-096-51 o ALIGNMENT TAPE, CR2-1B PS
 8-960-096-86 o ALIGNMENT TAPE, CR8-1B PS
 8-960-096-91 o ALIGNMENT TAPE, CR5-1B PS
 8-960-098-44 o ALIGNMENT TAPE, CR5-2A PS

 8-960-098-45 o ALIGNMENT TAPE, CR8-1A PS
 9-911-053-00 o THICKNESS GAUGE
 9-919-573-01 o CLEANING FLUID
 STANDARD TENTELOMETER (T2-H7-UMC)
 PRODUCTS

NOTE:For the # marked in the following parts list,
 refer to Section 19 " CHANGED PARTS ".



SECTION 19

CHANGED PARTS

NOTE: The numbers identified by making with) are matching with each serial numbers.

112) S/N 10001 - 10100
201) S/N 10101 - 10295
202) S/N 10296 - 10495

203) S/N 10496 - 10605
204) S/N 10606 and higher

AU-148AP BOARD

OLD)	C101	1-163-012-00 s CERAMIC, CHIP 1800PF 10% 50V
201)	C101	DELETED.
OLD)	C102	1-163-012-00 s CERAMIC, CHIP 1800PF 10% 50V
201)	C102	DELETED.
OLD)	C103	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
201)	C103	DELETED.
OLD)	D101	8-719-941-23 s DIODE DA204U
201)	D101	DELETED.
OLD)	D102	8-719-941-23 s DIODE DA204U
201)	D102	DELETED.
OLD)	D105	8-719-941-23 s DIODE DA204U
201)	D105	DELETED.
OLD)	IC105	8-759-240-69 s IC TC4069UBP
201)	IC105	DELETED.
OLD)	Q101	8-729-143-07 s TRANSISTOR 2SA1610-YY33
201)	Q101	DELETED.
OLD)	Q102	8-729-143-07 s TRANSISTOR 2SA1610-YY33
201)	Q102	DELETED.
OLD)	R101	1-216-111-00 s METAL, CHIP 390K 5% 1/10W
201)	R101	DELETED.
OLD)	R102	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
201)	R102	DELETED.
OLD)	R103	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
201)	R103	DELETED.
OLD)	R104	1-216-111-00 s METAL, CHIP 390K 5% 1/10W
201)	R104	DELETED.
OLD)	R105	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
201)	R105	DELETED.
OLD)	R106	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
201)	R106	DELETED.
OLD)	R107	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
201)	R107	DELETED.
OLD)	R141	1-215-475-00 s METAL 180K 1% 1/6W
201)	R141	DELETED.
OLD)	R143	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
201)	R143	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
OLD)	R144	1-215-493-00 s METAL 1M 1% 1/6W
201)	R144	1-215-485-11 s METAL 470K 1% 1/4W
OLD)	R147	1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W
201)	R147	1-216-692-11 s METAL, CHIP 51K 0.5% 1/10W
OLD)	R148	1-215-459-00 s METAL 39K 1% 1/6W
201)	R148	1-215-467-00 s METAL 82K 1% 1/6W
OLD)	RY101	1-515-434-11 s RELAY, REED
201)	RY101	DELETED.
OLD)	RY102	1-515-434-11 s RELAY, REED
201)	RY102	DELETED.

AU-149AP BOARD

OLD)	C101	1-163-012-00 s CERAMIC, CHIP 1800PF 10% 50V
201)	C101	DELETED.
OLD)	C102	1-163-012-00 s CERAMIC, CHIP 1800PF 10% 50V
201)	C102	DELETED.
OLD)	C103	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
201)	C103	DELETED.
OLD)	D101	8-719-941-23 s DIODE DA204U
201)	D101	DELETED.
OLD)	D102	8-719-941-23 s DIODE DA204U
201)	D102	DELETED.
OLD)	D105	8-719-941-23 s DIODE DA204U
201)	D105	DELETED.
OLD)	IC105	8-759-240-69 s IC TC4069UBP
201)	IC105	DELETED.
OLD)	Q101	8-729-143-07 s TRANSISTOR 2SA1610-YY33
201)	Q101	DELETED.
OLD)	Q102	8-729-143-07 s TRANSISTOR 2SA1610-YY33
201)	Q102	DELETED.
OLD)	R101	1-216-111-00 s METAL, CHIP 390K 5% 1/10W
201)	R101	DELETED.
OLD)	R102	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
201)	R102	DELETED.
OLD)	R103	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
201)	R103	DELETED.
OLD)	R104	1-216-111-00 s METAL, CHIP 390K 5% 1/10W
201)	R104	DELETED.
OLD)	R105	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
201)	R105	DELETED.
OLD)	R106	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
201)	R106	DELETED.
OLD)	R107	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
201)	R107	DELETED.
OLD)	R143	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
201)	R143	1-216-692-11 s METAL, CHIP 51K 0.5% 1/10W
OLD)	R144	1-215-493-00 s METAL 1M 1% 1/6W
201)	R144	1-215-459-00 s METAL 39K 1% 1/6W
OLD)	R148	1-215-467-00 s METAL 82K 1% 1/6W
201)	R148	1-215-477-00 s METAL 220K 1% 1/6W
OLD)	RY101	1-515-434-11 s RELAY, REED
201)	RY101	DELETED.
OLD)	RY102	1-515-434-11 s RELAY, REED
201)	RY102	DELETED.

AU-150A BOARD

OLD)	C5	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
201)	C5	DELETED.
OLD)	C8	1-164-232-11 s CERAMIC 0.01uF 10% 100V
201)	C8	DELETED.

(AU-150A BOARD)

OLD) C40 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
 201) C40 DELETED.

 OLD) C201 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
 201) C201 DELETED.
 OLD) C506 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
 201) C506 DELETED.
 OLD) C507 1-124-477-11 s ELECT 47uF 20% 25V
 201) C507 DELETED.

 OLD) C509 1-126-101-11 s ELECT 100uF 20% 16V
 201) C509 DELETED.
 OLD) C514 1-126-101-11 s ELECT 100uF 20% 16V
 201) C514 DELETED.
 OLD) D4 8-719-123-85 s DIODE 1SS304
 201) D4 DELETED.

 OLD) D201 8-719-123-82 s DIODE 1SS303-T1
 201) D201 DELETED.
 OLD) IC201 8-757-991-00 s IC CX7991
 201) IC201 DELETED.
 OLD) L1 1-408-423-00 s INDUCTOR 150uH
 201) L1 DELETED.

 OLD) Q3 8-729-420-14 s TRANSISTOR 2SK614
 201) Q3 DELETED.
 OLD) Q4 8-729-209-07 s TRANSISTOR 2SC4213-B
 201) Q4 DELETED.
 OLD) Q7 8-729-143-07 s TRANSISTOR 2SA1610-YY33
 201) Q7 DELETED.

 OLD) Q8 8-729-118-58 s TRANSISTOR 2SK852-X4
 201) Q8 DELETED.
 OLD) Q202 8-729-117-32 s TRANSISTOR 2SC4177
 201) Q202 DELETED.
 OLD) Q206 8-729-143-07 s TRANSISTOR 2SA1610-YY33
 201) Q206 DELETED.

 OLD) Q219 8-729-905-12 s TRANSISTOR DTA144EU
 201) Q219 DELETED.
 OLD) Q220 8-729-905-18 s TRANSISTOR DTC144EU
 201) Q220 DELETED.
 OLD) Q223 8-729-905-12 s TRANSISTOR DTA144EU
 201) Q223 DELETED.

 OLD) Q224 8-729-905-18 s TRANSISTOR DTC144EU
 201) Q224 DELETED.
 OLD) Q502 8-729-805-25 s TRANSISTOR 2SB1121-S
 201) Q502 DELETED.
 OLD) R9 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
 201) R9 DELETED.

 OLD) R10 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 201) R10 DELETED.
 OLD) R14 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 201) R14 DELETED.
 OLD) R23 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 201) R23 DELETED.

 OLD) R25 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
 201) R25 DELETED.
 OLD) R26 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
 201) R26 DELETED.
 OLD) R35 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
 201) R35 DELETED.

 OLD) R36 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
 201) R36 DELETED.

(AU-150A BOARD)

OLD) R40 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 201) R40 DELETED.
 OLD) R41 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 201) R41 DELETED.

 OLD) R42 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 201) R42 DELETED.
 OLD) R206 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W
 201) R206 DELETED.
 OLD) R210 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 201) R210 DELETED.

 OLD) R214 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
 201) R214 DELETED.
 OLD) R217 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 201) R217 DELETED.
 OLD) R218 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 201) R218 DELETED.

 OLD) R219 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 201) R219 DELETED.
 OLD) R221 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 201) R221 DELETED.
 OLD) R234 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 201) R234 DELETED.

 OLD) R235 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 201) R235 DELETED.
 OLD) R502 1-249-411-11 s CARBON 330 5% 1/4W
 201) R502 DELETED.

CL-25 BOARD

OLD) 1pc 1-640-170-12 o PRINTED CIRCUIT BOARD, CL-25
 201) 1pc 1-640-170-13 o PRINTED CIRCUIT BOARD, CL-25

DR-118A BOARD

OLD) C103 1-124-120-11 s ELECT 220uF 20% 25V
 202) C103 1-124-478-11 s ELECT 100uF 20% 25V
 OLD) R256 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 201) R256 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 OLD) R257 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 201) R257 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W

 OLD) R266 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 201) R266 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 OLD) R267 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 201) R267 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 OLD) R276 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 201) R276 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W

 OLD) R277 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 201) R277 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 OLD) R286 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 201) R286 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W

(DR-118A BOARD)

OLD) R287 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
201) R287 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W

OLD) R401 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
201) R401 1-216-670-11 s METAL, CHIP 6.2K 0.5% 1/10W

DT-30 BOARD

OLD) IC203 8-759-925-05 s IC LM2903PS
202) IC203 8-759-981-65 s IC LM2903M

MB-322B BOARD

OLD) CN225 1-568-935-11 o CONNECTOR 8P, MALE
203) CN225 DELETED.
OLD) CN226 1-565-882-11 o CONNECTOR 10P, MALE
203) CN226 DELETED.

PC-62 BOARD

OLD) 1pc 3-176-598-01 o SPRING, GROUND
204) 1pc 3-176-598-02 o SPRING, GROUND

PD-56 BOARD

OLD) 1pc 1-640-162-12 o PRINTED CIRCUIT BOARD, PD-56
201) 1pc 1-640-162-13 o PRINTED CIRCUIT BOARD, PD-56
OLD) R1 1-249-428-11 s CARBON 8.2K 5% 1/4W
201) R1 DELETED.
OLD) R2 1-249-428-11 s CARBON 8.2K 5% 1/4W
201) R2 DELETED.

PTC-39 BOARD

OLD) 1pc 1-633-548-12 o PRINTED CIRCUIT BOARD, PTC-39
204) 1pc 1-633-548-13 o PRINTED CIRCUIT BOARD, PTC-39

RP-57BP BOARD

OLD) C702 1-126-101-11 s ELECT 100uF 20% 16V
202) C702 1-124-477-11 s ELECT 47uF 20% 25V
OLD) C703 1-126-101-11 s ELECT 100uF 20% 16V
202) C703 1-124-477-11 s ELECT 47uF 20% 25V
OLD) C706 1-126-101-11 s ELECT 100uF 20% 16V
202) C706 1-124-477-11 s ELECT 47uF 20% 25V

OLD) C713 1-126-101-11 s ELECT 100uF 20% 16V
202) C713 1-124-477-11 s ELECT 47uF 20% 25V
OLD) C714 1-126-101-11 s ELECT 100uF 20% 16V
202) C714 1-124-477-11 s ELECT 47uF 20% 25V
OLD) C717 1-126-101-11 s ELECT 100uF 20% 16V
202) C717 1-124-477-11 s ELECT 47uF 20% 25V

OLD) C719 1-126-101-11 s ELECT 100uF 20% 16V
202) C719 1-124-477-11 s ELECT 47uF 20% 25V
OLD) C721 1-126-101-11 s ELECT 100uF 20% 16V
202) C721 1-124-477-11 s ELECT 47uF 20% 25V
OLD) C722 1-126-101-11 s ELECT 100uF 20% 16V
202) C722 1-124-477-11 s ELECT 47uF 20% 25V

OLD) C725 1-126-101-11 s ELECT 100uF 20% 16V
202) C725 1-124-477-11 s ELECT 47uF 20% 25V

SS-48P BOARD

OLD) IC707 8-759-054-54 s IC SRM2016M10
201) IC707 8-752-323-63 s IC CXK5816M-10L

VP-33BP BOARD

OLD) Q262 8-729-905-12 s TRANSISTOR DTA144EU
202) Q262 8-729-143-07 s TRANSISTOR 2SA1610-YY33
OLD) Q265 8-729-905-12 s TRANSISTOR DTA144EU
202) Q265 8-729-143-07 s TRANSISTOR 2SA1610-YY33
OLD) R337 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W
202) R337 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W

OLD) R362 NOT IN USE.
202) R362 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
OLD) R363 NOT IN USE.
202) R363 1-216-063-00 s METAL, CHIP 3.9K 5% 1/10W
OLD) R364 NOT IN USE.
202) R364 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

OLD) R365 NOT IN USE.
202) R365 1-216-063-00 s METAL, CHIP 3.9K 5% 1/10W
OLD) R368 NOT IN USE.
202) R368 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
OLD) R636 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W
202) R636 1-216-646-11 s METAL, CHIP 620 0.5% 1/10W

OLD) R644 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W
202) R644 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
OLD) R649 NOT IN USE.
202) R649 1-216-672-11 s METAL, CHIP 7.5K 0.5% 1/10W

(VP-33BP BOARD)

OLD)	R1001	1-216-041-00	s METAL, CHIP 470 5% 1/10W
204)	R1001	1-216-033-00	s METAL, CHIP 220 5% 1/10W
OLD)	R2001	1-216-041-00	s METAL, CHIP 470 5% 1/10W
204)	R2001	1-216-033-00	s METAL, CHIP 220 5% 1/10W
OLD)	R3001	1-216-041-00	s METAL, CHIP 470 5% 1/10W
204)	R3001	1-216-033-00	s METAL, CHIP 220 5% 1/10W
OLD)	RV504	1-238-801-11	s RES, ADJ METAL 5K
202)	RV504	1-238-802-11	s RES, ADJ METAL 10K
OLD)	RV505	1-238-801-11	s RES, ADJ METAL 5K
202)	RV505	1-238-802-11	s RES, ADJ METAL 10K
OLD)	TH301	NOT IN USE.	
202)	TH301	1-800-199-00	s THERMISTOR, S-1250
OLD)	TH601	NOT IN USE.	
202)	TH601	1-800-199-00	s THERMISTOR, S-1250